

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8374	18143	32140	1.34	3.1E-01	AW083548.1	EST_HUMAN	RC3-HN0001-310300-011-004 HN0001 Homo sapiens cDNA
8438	19207	32203	1.01	3.1E-01	AI294498.1	EST_HUMAN	q89001.x1 NCL CGAP_C08 Homo sapiens cDNA clone IMAGE:187468a 3'
8583	19346	32360	3.91	3.1E-01	X71987.1	NT	H-sapiens gene for Immunoglobulin kappa light chain variable region A3 and A9
8673	25061	30545	2.41	3.1E-01	BE737302.1	EST_HUMAN	001306121F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3040420 5'
7978	20248	33354	0.77	3.1E-01	4883390	NT	Homo sapiens hyaluronan synthase 2 (HAS2), mRNA
8546	21238	34381	1.71	3.1E-01	R46318.1	EST_HUMAN	y64d01.x1 Soares Infant brain (NIH) Homo sapiens cDNA clone IMAGE:36539 3'
8802	22463	35655	0.64	3.1E-01	6078322	NT	Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma (PIP5K1G), mRNA
8807	22815	35818	1.05	3.1E-01	BF606339.1	EST_HUMAN	602124743F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:4281611 5'
8867	22815	35819	1.05	3.1E-01	BF606339.1	EST_HUMAN	602124743F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:4281611 5'
10026	22877	35883	1.74	3.1E-01	A1244001.1	EST_HUMAN	q61611.x1 NCL CGAP_K143 Homo sapiens cDNA clone IMAGE:1803980 3' similar to gb:355700
10201	22840		0.83	3.1E-01	TE58325.1	EST_HUMAN	HYDROXYMETHYLGLUTARYL-COA LYASE PRECURSOR (HUMAN);
10741	23428	36872	1.28	3.1E-01	BF218117.1	EST_HUMAN	y647n08.x1 Strabagene fetal spleen (R637205) Homo sapiens cDNA clone IMAGE:74387 3' similar to similar
11524	24124	37430	2.56	3.1E-01	7862291	NT	to gb:M81038_m22 HEMOGLOBIN GAMMA-A AND GAMMA-G CHAINS (HUMAN)
12133	24623		1.48	3.1E-01	AF294308.1	NT	301683502F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4088614 5'
12168	24647		3.03	3.1E-01	AF304162.1	NT	Homo sapiens KIAA0784 gene product (KIAA0784), mRNA
12304	24729		2.62	3.1E-01	AF108983.1	NT	Andia opalinus isolate QS NADH dehydrogenase subunit 2 (ND2) gene, complete cds; mitochondrial gene
12690	24960		3.46	3.1E-01	AF108770.1	NT	Sitostacion vitreum 40S ribosomal protein S11 mRNA, partial cds
12690	25347		1.35	3.1E-01	10940623	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
70	15512	25833	2.01	3.0E-01	6755083	NT	Homo sapiens transcription factor IGHM enhancer 3 (XNPEP2) gene, complete cds
247	13059	25968	14.52	3.0E-01	AJ271735.1	NT	Mus musculus perlecan recognition protein-like (Polyrl-pending), mRNA
1202	13854	26818	2.51	3.0E-01	AW300400.1	EST_HUMAN	Mus musculus protein kinase C, epsilon (Pkc), mRNA
1497	14244	26930	6.57	3.0E-01	AJ006755.1	NT	Homo sapiens Xq pseudocentromere region; segment 1/2
2132	14862	27592	1.18	3.0E-01	AF293778.1	NT	xa63008.x1 NCL CGAP_K141 Homo sapiens cDNA clone IMAGE:2774343 3'
3206	15989		1.2	3.0E-01	AF293778.1	NT	Baleonopsis physalis gene encoding arial neuropeptide
3846	16987	28234	1.46	3.0E-01	AB030481.1	NT	Rattus norvegicus Ca2+/calmodulin-dependent protein kinase II, alpha subunit mRNA, 3' untranslated region
4477	17212	29337	1.95	3.0E-01	AW817785.1	EST_HUMAN	Corynebacterium sp. ALY-1 <i>alyP</i> gene for polyketide synthase, complete cds
5287	18073	30702	7.22	3.0E-01	AJ008765.1	NT	PM1-ST032-281199-001-g01 ST0282 Homo sapiens cDNA
5348	18152	30833	0.77	3.0E-01	AF226247.1	NT	Baleonopsis physalis gene encoding arial neuropeptide
						EST_HUMAN	001504060F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3948734 5'
						NT	Centigale orthopoxvirus hemagglutinin gene, complete cds

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5417	18216	30924	3.94	3.0E-01	BE983575.1	EST_HUMAN	RC3-BT0333-180705-111-403 BT0333 Homo sapiens cDNA
5417	18216	30925	3.94	3.0E-01	BE983575.1	EST_HUMAN	RC3-BT0333-180705-111-403 BT0333 Homo sapiens cDNA
5453	18252	31142	4.77	3.0E-01	U01247.1	NT	Mus musculus 129ev Clara cell 10 kd protein (mCC10) gene, complete cds
6732	19568	32598	3.06	3.0E-01	D18313.1	NT	Mouse cyclotaxin 15 gene, complete cds
6732	17931	30567	0.81	3.0E-01	U07290.1	NT	Strongylocentrotus purpuratus 34067 kDa laminin-binding protein mRNA, partial cds
6827	19488	32510	0.85	3.0E-01	AF22047.1	NT	Canis lupus familiaris hemagglutinin gene, complete cds
7021	19713	32770	0.71	3.0E-01	AL169208.2	NT	Homo sapiens chromosome 21 segment HS210008
7227	18912	32985	2.77	3.0E-01	10847007	NT	Mus musculus midbrain (Mch-pending), mRNA
7400	20078	33159	1.37	3.0E-01	AF071810.1	NT	Streptococcus pneumoniae strain DBL6 PapA (pspA) gene, partial cds
7627	20322	35948	1.3	3.0E-01	AE001795.1	NT	Thermococcus maritima section 07 of 138 of the complete genome
8271	20965		2.97	3.0E-01	0910161	NT	Mus musculus C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9 (Clec4e), mRNA
8374	21067	34207	1.32	3.0E-01	BE990083.1	EST_HUMAN	801339070F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3881594 5'
8728	21420	34584	0.51	3.0E-01	AF141678.1	NT	Streptomyces sulfonolactams isopenicillin N synthase (pcbc) gene, partial cds
8770	21462		0.8	3.0E-01	7881696	NT	Homo sapiens DKFZP598M0122 protein (DKFZP598M0122), mRNA
9118	21803	34972	0.81	3.0E-01	AF220507.1	NT	Anabaena PCC7120 cytochrome-specific DNA methyltransferase (dnmB) gene, complete cds; putative
9656	22508		43.84	3.0E-01	BE001129.1	EST_HUMAN	anthranilate phosphoribosyltransferase gene, partial cds, and unknown gene
9688	22518	35714	1.25	3.0E-01	BF674612.1	EST_HUMAN	RC2-BN0074-240400-110-112 BN0074 Homo sapiens cDNA
10042	22690	35908	0.49	3.0E-01	AF152598.3	NT	602133271F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4288338 5'
10042	22690	35909	0.49	3.0E-01	AF152598.3	NT	Acetivibrio actinomycetomorphans TsdA (tsdA), TsdB (tsdB), TsdC (tsdC), TsdD (tsdD), TsdE (tsdE), TsdF (tsdF), and TsdG (tsdG) genes, complete cds
10294	22841	36155	0.84	3.0E-01	AF118111.1	EST_HUMAN	Acetivibrio actinomycetomorphans TsdA (tsdA), TsdB (tsdB), TsdC (tsdC), TsdD (tsdD), TsdE (tsdE), TsdF (tsdF), and TsdG (tsdG) genes, complete cds
10296	22943	36157	1.88	3.0E-01	AB030231.1	NT	Aspergillus oryzae BipA gene for ER chaperone Bip, complete cds
10316	22963	36179	0.73	3.0E-01	BF683941.1	EST_HUMAN	802140133F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301087 5'
10316	22963	36180	0.73	3.0E-01	BF683941.1	EST_HUMAN	802140133F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301087 5'
11772	24363	37864	1.95	3.0E-01	HE1029.1	EST_HUMAN	yp84b10.1 Sources fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:184107 5'
12418	25302	37995	1.95	3.0E-01	HE1029.1	EST_HUMAN	yp84b10.1 Sources fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:184107 5'
12693	25345		2.52	3.0E-01	AJ297031.1	NT	Rattus norvegicus mRNA for glyceraldehyde-3-phosphate dehydrogenase type 2 (gapdh-2 gene)
2018	14753	27481	1.43	3.0E-01	6877768	NT	Mus musculus ribose 5-phosphate isomerase A (RpiA), mRNA
2245	14973	27710	1.18	2.9E-01	AE000798.1	NT	Aquifex aeolicus section 88 of 109 of the complete genome
3248	18009	28858	2.73	2.9E-01	AF222718.1	EST_HUMAN	Chrysodidymus synuroides mitochondrion, complete genome
					PM1-CT0328-171299-001-112 CT0328	EST_HUMAN	Homo sapiens cDNA

Page 73 of 536

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3246	16008	26659	2.73	2.9E-01	AW754236.1	EST_HUMAN	PM1-CT0328-171298-001-f12 GT0328 Homo sapiens cDNA
3877	19627	20285	0.72	2.9E-01	AI810838.1	EST_HUMAN	tp21417.x1 NC1 CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2188412 3' similar to gb:D15050 NIL-2-A
4052	16797	20427	0.73	2.9E-01	AB016428.1	NT	ZINC FINGER PROTEIN (HUMAN) contains element L1 repetitive element;
4064	16809		0.77	2.9E-01	AW002802.1	EST_HUMAN	Cavia porcellus mRNA for glutathione S-transferase, complete cds
4462	17188	20813	1.1	2.9E-01	AA284468.1	EST_HUMAN	w021010.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2480396 3'
5177	17988		1.06	2.9E-01	R37485.1	EST_HUMAN	zs57d12.1 NC1 CGAP_G03B1 Homo sapiens cDNA clone IMAGE:701591 5' similar to contains Alu
5310	18507	32532	0.79	2.9E-01	AF321001.1	NT	repetitive element
5677	18471	31387	5.19	2.9E-01	X65008.1	NT	Y77612.21 Scores Infant brain (NIB) Homo sapiens cDNA clone IMAGE:28291 3'
5677	18471	31388	5.10	2.9E-01	X65008.1	NT	Succisa maritima subsp. sessa S-acetoxymethoxine synthetase 2 mRNA, complete cds
5693	18482	31401	6.4	2.9E-01		NT	B. subtilis levanase operon (levD, levE, levF, levG and sacC (partial) genes for fructose phosphoryltransferase
5693	18747	31708	1.47	2.9E-01	AA418143.1	EST_HUMAN	system polyepitides P16,18,28,30 and levanase
6187	18984	31837	1.08	2.9E-01	AI707128.1	EST_HUMAN	system polyepitides P16,18,28,30 and levanase
6233	19007	31864	2.4	2.9E-01	U03420.1	NT	Mus musculus Eph receptor A5 (EphA2), mRNA
6365	19135	32130	0.86	2.9E-01	R60194.1	EST_HUMAN	wk27c05.x1 NC1 CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2342312 3' similar to contains L1.H.L1
6365	19135	32131	0.88	2.9E-01	R60194.1	EST_HUMAN	repetitive element;
6621	19383		0.58	2.9E-01	Z50158.1	NT	Bos taurus myosin I mRNA, complete cds
6890	17996	30523	1.82	2.9E-01	AF142328.1	NT	X39408.1 Scores placenta Nib2HP Homo sapiens cDNA clone IMAGE:141615 5'
6906	19688	32737	2.95	2.9E-01	Q04390	SWISSPROT	X39408.1 Scores placenta Nib2HP Homo sapiens cDNA clone IMAGE:141615 5'
							D. discoideum gene for 34 kD actin binding protein
							Mus musculus Fish protein (Fih) gene, complete cds; and Lgh protein (Lgh) gene, partial cds
							PUTATIVE MULTICOPPER OXIDASE YDR096C
							Mus musculus major histocompatibility locus class II region; Fas-binding protein Diox (DAXX) gene, partial cds; Bmg1 (BING1), leucosin (leucosin), RalGDS-like factor (RLF), KE2 (KE2), BING4 (BING4), beta1, 3-galactosyl transferase (beta1,3-galactosyl tr>
7059	19750	32813	2.06	2.9E-01	AF100656.1	NT	801066305F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452287 5'
7820	20515	33840	1.87	2.9E-01	BE540422.1	EST_HUMAN	801066305F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452287 5'
7820	20515	33841	1.87	2.9E-01	BE540422.1	EST_HUMAN	801066305F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452287 5'
8049	20743	33875	0.48	2.9E-01	AJ237937.1	NT	Bos taurus partial stat5A gene, exon 5-19
8049	20743	33876	0.48	2.9E-01	AJ237937.1	NT	Bos taurus partial stat5A gene, exon 5-19
8062	20756		0.84	2.9E-01	BF217743.1	EST_HUMAN	801882570F1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:4085113 5'
							Buchnera aphidicola pleasmid plau isolate M1 2-isopropylmalate synthetase (leuA) gene, partial cds; 3-isopropylmalate dehydrogenase (leuB) gene, complete cds; and isopropylmalate dehydratase subunit (leuC) gene, partial cds
8237	20831		0.48	2.9E-01	AF197498.1	NT	

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8493	21185	34328	0.84	2.0E-01	AU160910.1	EST_HUMAN	AU160910 NT2BP2 Homo sapiens cDNA clone NT2BP2003901.3'
8523	21515	34080	1.02	2.0E-01	AF228008.1	NT	Arabidopsis thaliana sulfonurea receptor-like protein mRNA, complete cds
8831	21022	34795	0.85	2.0E-01	M27452.1	NT	Saboon lymphocyte homing/adhesion receptor mRNA, complete cds
9145	21876	35040	0.76	2.0E-01	AJ248287.1	NT	Pyrococcus abyssi complete genome, segment 6/8
9145	21876	35041	0.76	2.0E-01	AJ248287.1	NT	Pyrococcus abyssi complete genome, segment 5/8
10810	23498	36728	1.93	2.0E-01	AF128843.1	NT	Typanosoma cruzi stage-specific surface glycoprotein gp82 (gp82) mRNA, partial cds
11114	23784	37059	1.75	2.0E-01	V01394.1	NT	Torpedo californica mRNA encoding acetylcholine receptor gamma subunit
11114	23784	37060	1.75	2.0E-01	V01394.1	NT	Torpedo californica mRNA encoding acetylcholine receptor gamma subunit
11575	24174	37489	1.50	2.0E-01	AA635373.1	EST_HUMAN	ny59102.x1 NCI CGAP_Pt12 Homo sapiens cDNA clone IMAGE:1273779 similar to contains LTR8.12 LTR8 repetitive element;
11570	24178	37493	3.55	2.0E-01	AL130078.2	NT	Campylobacter jejuni NCTG1108 complete genome; segment 5/8
11600	24188	37519	1.62	2.0E-01	U39025.1	NT	Rattus norvegicus activin receptor-like kinase 7 (ALK7) mRNA, complete cds
11600	24188	37520	1.62	2.0E-01	U39025.1	NT	Rattus norvegicus activin receptor-like kinase 7 (ALK7) mRNA, complete cds
12452	24821	31024	4.05	2.0E-01	AF082453.1	NT	Homo sapiens TNF- α -inducible RNA binding protein (TRIP) gene, complete cds
12741	25007	30973	1.86	2.0E-01	Y08837.1	NT	Chlamydomonas reinhardtii mRNA for nitrite reductase structural locus
12741	25007	30974	1.86	2.0E-01	Y08837.1	NT	Chlamydomonas reinhardtii mRNA for nitrite reductase structural locus
565	13538		1.7	2.0E-01	U67138.1	NT	Rattus norvegicus A-kinase anchoring protein AKAP150 mRNA, complete cds
500	13542		1.01	2.0E-01	U28145.1	NT	Prune dwarf virus movement protein, complete cds; coat protein, complete cds
1061	13519	26481	3.96	2.0E-01	AF168050.1	NT	Gutta guira oocyte maturation factor Msa (C-mos) gene, partial cds
1264	14003	26871	1.82	2.0E-01	BE313442.1	EST_HUMAN	601148733F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3139888 5'
1264	14003	26872	1.82	2.0E-01	BE313442.1	EST_HUMAN	601148733F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3139888 5'
1268	14017	26884	1.34	2.0E-01	D86550.1	NT	Human mRNA for serine/threonine protein kinase, complete cds
1651	14397	27087	1.11	2.0E-01	AF076238.1	NT	Hepatitis G virus isolate 80 (SZNAE12) polyprotein precursor, gene, partial cds
1720	14493	27163	2.04	2.0E-01	AW680020.1	EST_HUMAN	QV1-CT03684-120200-065-605 GT03684 Homo sapiens cDNA
2006	14742	27467	2.35	2.0E-01	AL047820.1	EST_HUMAN	DKFZps59812321 JT 586 (synonym: tuer1) Homo sapiens cDNA clone DKFZps59812321
2127	14859	27538	1.41	2.0E-01	AW811195.1	EST_HUMAN	h44403.x1 Source_NEL_L_OBC_S1 Homo sapiens cDNA clone IMAGE:2912333 3'
2475	15193	27933	2.04	2.0E-01	AE000494.1	NT	Escherichia coli K-12 MG1655 section 384 of 400 of the complete genome
2475	15193	27934	2.04	2.0E-01	AE000494.1	NT	Escherichia coli K-12 MG1655 section 384 of 400 of the complete genome
2549	15294		1.89	2.0E-01	AL181685.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 65
2670	15390	28118	0.97	2.0E-01	AB020075.1	NT	Arabidopsis thaliana mRNA for lipoxygenase, complete cds
2970	15736		1.28	2.0E-01	AF179480.1	NT	Toxoplasma gondii 80kDa heat-shock protein (HSP80) mRNA, partial cds
2971	15737	28386	2.04	2.0E-01	Z14037.1	NT	B.taurus microsatellite (ETH121)
2971	15737	28387	2.04	2.0E-01	Z14037.1	NT	B.taurus microsatellite (ETH121)
3373	16132	28788	1.13	2.0E-01	AP000004.1	NT	Pyrococcus horikoshii OT3 genomic DNA, 777001-994000 nt. position (417)

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3978	16726	20360	1.50	2.8E-01	AE001180.1	NT	Borrelia burgdorferi (section 68 of 70) of the complete genome
4174	16914		1.95	2.8E-01	AI000988.1	EST_HUMAN	ov4g10.x1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:1040228 3' similar to contains Alu repetitive element/contains element MER22 repetitive element:
4422	17158	29789	0.99	2.8E-01	AL021127.2	NT	Mus musculus chromosome X contig: putative MagosB gene, Caltradin, NAD(P) steroid dehydrogenase and Zinc finger protein 165
4427	17163	29793	2.31	2.8E-01	P13615	SWISSPROT	RNA POLYMERASE BETA SUBUNIT (LARGE STRUCTURAL PROTEIN) (L PROTEIN)
4772	17504	30128	1.19	2.8E-01	AF075238.1	NT	Hepatitis G virus isolate 80 (SZNAE12) polyprotein precursor, gene, partial cds
4771	17506	30131	2.67	2.8E-01	AF001154.1	NT	Bovine adenovirus 3 complete genome
4808	17539	30162	1.23	2.8E-01	BF028188.1	EST_HUMAN	602042801F1 NCI CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4180128 5'
4829	17590	30182	1.91	2.8E-01	AI272969.1	EST_HUMAN	g150c11.x1 Soares, NIH/MPu_S1 Homo sapiens cDNA clone IMAGE:1876828 3' similar to contains Alu repetitive element/contains element LTR5 repetitive element:
5228	25084	30060	24.66	2.8E-01	AA349897.1	EST_HUMAN	EST57072 Infant brain Homo sapiens cDNA 5' end
5519	18317	31218	3.07	2.8E-01	AB016625.1	NT	Homo sapiens OCTN2 gene, complete cds
6727	18519		0.95	2.8E-01	AW002583.1	EST_HUMAN	CNH-BN0024-150200-118-g12 BN0024 Homo sapiens cDNA
5948	18635		0.83	2.8E-01	AA04576.1	EST_HUMAN	Z41101.1 Soares ovary tumor NBH07 Homo sapiens cDNA clone IMAGE:724921 5' similar to contains Alu repetitive element:
6083	25418		0.95	2.8E-01	MA36998.1	NT	Bovine 680 bp repeated unit of 1.723 satellite DNA
6123	18901	31869	1.93	2.8E-01	AF003124.1	NT	Mesembryanthemum crystallinum fructose-bisphosphate aldolase mRNA, complete cds
6123	18901	31870	1.93	2.8E-01	AF003124.1	NT	Mesembryanthemum crystallinum fructose-bisphosphate aldolase mRNA, complete cds
6832	18394	32409	8.34	2.8E-01	BF611215.1	EST_HUMAN	U1H-B14-act-4.04-0.UJ.1 NCI CGAP_Sub6 Homo sapiens cDNA clone IMAGE:3085182 3'
7341	20022		1.17	2.8E-01	U05933.1	NT	Marietta quadrifolia ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl.) gene, chloroplast gene encoding chloroplast protein, partial cds
7382	20062	33140	0.68	2.8E-01	X89080.1	NT	Leuciscium y12 mRNA for GTP-binding protein
7891	20686	33811	1.28	2.8E-01	AB46126.1	EST_HUMAN	qp4801.x1 NCI CGAP_C08 Homo sapiens cDNA clone IMAGE:1926289 3' similar to gb:X06323_cds1 MITOCHONDRIAL 60S RIBOSOMAL PROTEIN L3 (HUMAN);
7991	20996	33812	1.28	2.8E-01	AB46126.1	EST_HUMAN	qp4801.x1 NCI CGAP_C08 Homo sapiens cDNA clone IMAGE:1926289 3' similar to gb:X06323_cds1 MITOCHONDRIAL 60S RIBOSOMAL PROTEIN L3 (HUMAN);
8108	20802	33935	1.92	2.8E-01	U51088.1	NT	Homo sapiens larotect 14-alpha demethylase cytochrome P-450 (CYP51) gene, exon 5'
8412	21105	34244	0.61	2.8E-01	AA911829.1	EST_HUMAN	GAMMA-1 CHAIN C REGION (HUMAN)
8488	21180		7.34	2.8E-01	BF347847.1	EST_HUMAN	602022887F1 NCI CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4158525 5'
9396	21941	35115	0.82	2.8E-01	U17261.1	NT	Neurospora crassa negative regulator sulfur control-2 (scn-2) gene, complete cds
9611	22284		0.88	2.8E-01	L13654.1	NT	Lycopodium seculinum peroxidase (TPX1) mRNA, complete cds
9788	22439	35948	0.60	2.8E-01	AF132728.1	NT	E scherichia coli translocated intimin receptor Ttr (tit) gene, complete cds

Page 76 of 538

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9788	22439	35847	0.66	2.8E-01	AF132728.1	NT	Escherichia coli translocated intimin receptor Tir (tir) gene, complete cds
9850	22500	35700	0.52	2.8E-01	AF294933.1	NT	Rattus norvegicus glycerol-3-phosphate dehydrogenase gene, promoters A and B and exons 1a and 1b;
9860	22608	35813	3.35	2.8E-01	U708163	NT	nuclear gene for mitochondrial product
10211	22859		1.47	2.8E-01	9028154	NT	Homo sapiens hypothetical protein (LOC51319), mRNA
10251	22899	36109	0.6	2.8E-01	BE595727.2	EST_HUMAN	Fujikuri sarcoma virus, complete genome
10444	23335	36573	2.42	2.8E-01	BF241062.1	EST_HUMAN	601180704F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3839766 3'
10444	23335	36574	2.42	2.8E-01	BF241062.1	EST_HUMAN	601180704F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4109350 5'
10444	23335	36574	2.42	2.8E-01	BF241062.1	EST_HUMAN	601180704F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4109350 5'
10871	23362	36603	3.83	2.8E-01	BF665970.1	EST_HUMAN	6011852148F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4076028 5'
10794	23477	36719	1.33	2.8E-01	AF061682.1	NT	Drosophila heteronema fusiformis (fru) gene, alternative splice products, 5' flanking region, exons 1 through 7 and complete cds
11247	23608		4.51	2.8E-01	BF874023.1	EST_HUMAN	602137419F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4273853 5'
11563	24192	37510	17.65	2.8E-01	AL139074.2	NT	Centriodactylus leijani NGTC11168 complete genome; segment 1/8
12408	24789		15.41	2.8E-01	D33323.1	NT	Mus musculus DNA for proteoglycan D2 synthase, complete cds
12509	24861	31013	4.22	2.8E-01	BE178909.1	EST_HUMAN	PMA-H10606-030400-001-H1070606 Homo sapiens cDNA
12509	24877	31019	1.77	2.8E-01	BE900116.1	EST_HUMAN	601187320F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3955996 5'
12685	25306		2.52	2.8E-01	U11433629	NT	Homo sapiens CD44-binding protein kinase beta (DMPK-like) (CD44BPB), mRNA
12808	25401		1.49	2.8E-01	AW025400.1	EST_HUMAN	wu86p05.x1 NCI_CGAP_K438 Homo sapiens cDNA clone IMAGE:2527028 3'
464	13249	25880	3.97	2.7E-01	Y17324.1	NT	Rattus norvegicus GDI104 mRNA
589	13377	26007	3.25	2.7E-01	AA450061.1	EST_HUMAN	z38b10.81 Soares_betal testu_Nb21Hf9_Bw Homo sapiens cDNA clone IMAGE:788827 3' similar to contains Alu repetitive element
1238	13987	26654	2.13	2.7E-01	AB004808.1	NT	Ipomoea purpurea transposable element Tpt100 gene for transposase, complete cds
1617	14394		1.58	2.7E-01	X78015.1	NT	Giantlike SF2 gene
1722	14465	27164	3.5	2.7E-01	W59067.1	EST_HUMAN	z3222h10.1 Soares_betal testu_Nb4H109W Homo sapiens cDNA clone IMAGE:341443 5'
1769	14511		2.56	2.7E-01	PQ3941	SWISSPROT	GAG POLYPROTEIN (CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P16; CORE SHELL PROTEIN P30; NUCLEOPROTEIN P10)
2131	15058		2.25	2.7E-01	AF047878.1	NT	Rattus norvegicus vesicular monoclonal transporter type 2, promoter region and exon 1
2397	15098	27826	10.01	2.7E-01	Y13988.1	NT	Feline immunodeficiency virus env gene, isolate ITT088P1U (M88), partial
2457	15175	27914	4.07	2.7E-01	A1810888.1	EST_HUMAN	tr430t1.12 NCI_CGAP_L1025 Homo sapiens cDNA clone IMAGE:2048936 3' similar to contains element L1 repetitive element
2858	15666	28314	1.2	2.7E-01	AF251276.1	NT	Mus musculus serine protease inhibitor 14 (Spi14) mRNA, complete cds
2883	15749		2.63	2.7E-01	BF098284.1	EST_HUMAN	OMI-H110875-060000-385-05 HT10876 Homo sapiens cDNA
3283	16044	28663	0.68	2.7E-01	8889920	NT	Rattus norvegicus insulin receptor (Insr), mRNA
3962	16740	28374	1.97	2.7E-01	A1828015.1	EST_HUMAN	wu92e11.x1 NCI_CGAP_K6111 Homo sapiens cDNA clone IMAGE:2462828 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4002	16749	26380	0.89	2.7E-01	AF210214.1	NT	Drosophila buzzatii alpha-esterase 6 (aE6) gene, partial cds
4002	16749	26381	0.89	2.7E-01	AF210214.1	NT	Drosophila buzzatii alpha-esterase 6 (aE6) gene, partial cds
4008	16754	26384	2.12	2.7E-01	L77599.1	NT	Homo sapiens Dlx-3 gene, critical region, telomeric end
4880	17703		2.85	2.7E-01	AW860131.1	EST_HUMAN	RC1-OT0289-220200-016-e03 OT0289 Homo sapiens cDNA
5011	17733	30336	2.53	2.7E-01	AA100695.1	EST_HUMAN	260401.1 Striatum cDNA (#637204) Homo sapiens cDNA clone IMAGE:511848 5' similar to
5011	17733	30340	2.53	2.7E-01	AA100695.1	EST_HUMAN	260401.1 Striatum cDNA (#637204) Homo sapiens cDNA clone IMAGE:511848 5' similar to
5185	17993	30509	2.39	2.7E-01	P17277	SWISSPROT	gbX65488_cds1 HETEROGENOUS NUCLEAR RIBONUCLEOPROTEIN U (HUMAN);
5402	18202		0.85	2.7E-01	AB033171.1	NT	HOMEOBOX PROTEIN HOXA-4 (HOXA-4)
						NT	Astroglioma myelophthemia mitochondrial cytochrome b, partial cds
6249	19023	31995	0.88	2.7E-01	Q00618	SWISSPROT	LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 1 PRECURSOR (TRANSFORMING GROWTH FACTOR BETA-1 BINDING PROTEIN 1) (TGF-BETA1-BP-1) (TRANSFORMING GROWTH FACTOR BETA-1 MASKING PROTEIN, LARGE SUBUNIT)
6249	19023	31995	0.88	2.7E-01	Q00618	SWISSPROT	LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 1 PRECURSOR (TRANSFORMING GROWTH FACTOR BETA-1 BINDING PROTEIN 1) (TGF-BETA1-BP-1) (TRANSFORMING GROWTH FACTOR BETA-1 MASKING PROTEIN, LARGE SUBUNIT)
6515	19280	32262	0.93	2.7E-01	AE001094.1	NT	Archaeoglobus fulgidus section 13 of 172 of the complete genome
6515	19280	32263	0.93	2.7E-01	AE001094.1	NT	Archaeoglobus fulgidus section 13 of 172 of the complete genome
6681	19598	32637	2.23	2.7E-01	Q61554	SWISSPROT	FIBRILLIN 1 PRECURSOR
6816	19653	32689	0.58	2.7E-01	U15907.1	NT	Drosophila melanogaster rfa40 protein, Rop protein (Rop), and small GTP binding protein (DRase2) genes, complete cds
6852	19434		0.79	2.7E-01	AI540070.1	EST_HUMAN	503R08.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2075103 3'
7256	19640	33015	0.74	2.7E-01	Q11070	SWISSPROT	HYPOTHETICAL 20.9 KD PROTEIN B0563.3 IN CHROMOSOME X
7461	20134	33225	0.75	2.7E-01	Q01188	SWISSPROT	NITROGEN REGULATORY PROTEIN NUT1
7461	20134	33226	0.76	2.7E-01	Q01188	SWISSPROT	NITROGEN REGULATORY PROTEIN NUT1
7688	20256	33363	2.16	2.7E-01	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
7688	20256	33364	2.16	2.7E-01	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
7688	20303	33411	0.94	2.7E-01	AA351121.1	EST_HUMAN	EST58740 Infant brain Homo sapiens cDNA 5' and similar to similar to myosin-binding protein H
7688	20303	33412	0.94	2.7E-01	AA351121.1	EST_HUMAN	EST58740 Infant brain Homo sapiens cDNA 5' and similar to similar to myosin-binding protein H
7684	20358	33472	0.71	2.7E-01	L01081.1	NT	Oryzopsis curvicaulis UDP-glucanase (UGT2B13) mRNA, complete cds
7763	20459	33583	0.88	2.7E-01	AA013147.1	EST_HUMAN	263511.1 Scores, retina N2b-4-HR Homo sapiens cDNA clone IMAGE:360857 3' similar to contains Alu repetitive element

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7925	20820		0.53	2.7E-01	AF048820.1	NT	Cereasius auratus pituitary edemylate cyclase activating polypeptide type 1 receptor precursor mRNA, complete cds
8088	20780	33909	0.51	2.7E-01	R33257.1	EST_HUMAN	y91700.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:23511 3'
8100	20884	34022	0.8	2.7E-01	AL161552.2	EST	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 52
8657	21349	34484	0.68	2.7E-01	Q14704	SWISSPROT	MAJOR VAULT PROTEIN (MVP) (LUNG RESISTANCE-RELATED PROTEIN)
8925	21616	34780	0.46	2.7E-01	X03216.1	NT	Staphylococcus aureus transposon Tr554
9232	21911	35084	10.41	2.7E-01	O83809	SWISSPROT	THREONYL-TRNA SYNTHETASE (THREONINE-TRNA LIGASE) (THRRS)
9232	21911	35085	10.41	2.7E-01	O83809	SWISSPROT	THREONYL-TRNA SYNTHETASE (THREONINE-TRNA LIGASE) (THRRS)
9235	21914		2	2.7E-01	P37828	SWISSPROT	FIMBRIN W PROTEIN
9700	22351	35546	0.61	2.7E-01	D88880.1	NT	Rattus norvegicus DNA for peroxisome assembly factor-2, exon 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and complete cds
9881	22829	35838	0.74	2.7E-01	AF097848.1	NT	Oryctolagus cuniculus calgranulin C mRNA, partial cds
10018	22986	35882	3.08	2.7E-01	AF087434.1	NT	Mus musculus transcription factor NF-A1c isoform a (NF-A1c) mRNA, complete cds
10149	22797	36012	0.57	2.7E-01	AF156539.1	NT	Homo sapiens xeroderma pigmentosum complementation group C (XPC) gene, intron 9
10149	22797	36013	0.57	2.7E-01	AF156539.1	NT	Homo sapiens xeroderma pigmentosum complementation group C (XPC) gene, intron 9
10714	23403	36842	1.62	2.7E-01	AF705043.1	EST_HUMAN	AV705043 ADB Homo sapiens cDNA clone ADBCO005 5'
10714	23403	36843	1.62	2.7E-01	AF705043.1	EST_HUMAN	AV705043 ADB Homo sapiens cDNA clone ADBCO005 5'
10724	23412	36853	3.13	2.7E-01	AJ133289.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
11820	24406		1.5	2.7E-01	O14181	SWISSPROT	PUTATIVE 60S RIBOSOMAL PROTEIN C1P8.06C
12482	25190		1.49	2.7E-01	AB008782.1	NT	Arabidopsis thaliana mRNA for sulfite transporter, complete cds
12655	24963		2.83	2.7E-01	AF217491.1	NT	Homo sapiens fragile 10D cdk5 reductase (FDR) gene, exon 6
12811	25064	30920	1.95	2.7E-01	AF742419.1	EST_HUMAN	AV742419 CB Homo sapiens cDNA clone CBMAV02 5'
457	15542	25883	2.03	2.6E-01	P78411	SWISSPROT	IRQUOIS-CLASS HOMEODOMAIN PROTEIN RX-2
468	13254		1.38	2.6E-01	D16450.1	NT	Bos taurus mRNA for mb-1, complete cds
1372	14120	26765	1.95	2.6E-01	BE885067.1	EST_HUMAN	g01510333f1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912345 5'
1417	14165	26848	1.14	2.6E-01	AB013280.1	NT	Glycine max pseudogene for B4 30K
1889	14926	27335	4.33	2.6E-01	AL161472.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 2
1889	14926	27336	4.33	2.6E-01	AL161472.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 2
2086	14918		10.48	2.6E-01	AW733152.1	EST_HUMAN	b604d10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2958451 3' similar to g1c130072 50S RIBOSOMAL PROTEIN L7A (HUMAN); gb:M14699_cds1 Mouse surfactant protein 3 protein gene (MOUSE)
2149	14978	27613	3.7	2.6E-01	M11844.1	NT	Human prealbumin gene, complete cds
2476	15184		1.62	2.6E-01	Y12963.1	NT	B. maritimus ribL gene

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2548	15263		8.87	2.6E-01	BE272440.1	EST_HUMAN	601126016F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:2960043 5'
3568	15023	28971	8.89	2.6E-01	M22342.1	NT	Bacteriophage T2 DNA-(adenine-N5)methyltransferase (dam) gene, complete cds
3634	16387	29028	2.02	2.6E-01	AF228118.1	NT	Homo sapiens acetylcholinesterase collagen-like tail subunit (COLQ) gene, exons 1A, 2, 3, 4, and 5
4079	16623	29449	0.98	2.6E-01	AW80610.1	EST_HUMAN	EST1971580 MAGE resequences, MAGE Homo sapiens cDNA
4134	16878	29506	16.7	2.6E-01	BE080598.1	EST_HUMAN	QV1-BT0630-040400-132-403 BT0630 Homo sapiens cDNA
4324	17063	29591	1.2	2.6E-01	AF175293.1	NT	Enterococcus faecium strain N97-330 verD glycopeptide resistance gene cluster, complete cds, and unknown gene
4456	17195	29821	0.8	2.6E-01	AB021180.1	NT	Callus gallus mRNA for skeletal myosin heavy chain, complete cds
4456	17195	29821	0.8	2.6E-01	AB021180.1	NT	Callus gallus mRNA for skeletal myosin heavy chain, complete cds
4511	17246	29881	1.46	2.6E-01	AA457617.1	EST_HUMAN	aa89407.1 Stragene fold retina 937202 Homo sapiens cDNA clone IMAGE:838477 5'
4601	17336	29895	1.77	2.6E-01	U01103.1	NT	Arabidopsis thaliana PSI type III chlorophyll a/b-binding protein (Lhca3*) mRNA, complete cds
4687	17401	30035	1.18	2.6E-01	AF142793.1	NT	Oryzella radices murease-like protein (malk) gene, complete cds; chloroplast gene for chloroplast product
4810	17638	30252	0.95	2.6E-01	AF153300.1	NT	Mus musculus metalloproteinase disintegrin (Adam28) mRNA, complete cds
4814	17642	30257	3.6	2.6E-01	H04858.1	EST_HUMAN	y51e05.r1 Soares placenta NB2-HP Homo sapiens cDNA clone IMAGE:152288 5'
5257	18063		1.06	2.6E-01	AB035972.1	NT	Paramecium caudatum gene for PAP, complete cds
5484	18283		0.88	2.6E-01	AB82398.1	EST_HUMAN	td10a03.x1 NCI_CGAP_C010 Homo sapiens cDNA clone IMAGE:2075788 3' similar to contains element MER35 repetitive element
5688	18481	31400	0.73	2.6E-01	AF207550.1	NT	Homo sapiens protein translocase, JM28 protein, UDP-galactose translocator, pin-2 proboscogene homolog pin-2h, and shal-type potassium channel genes, complete cds; JM12 protein and transcription factor (G1-HM enhancer 3 genes, partial cds, and unknown gp
5980	25417		2.95	2.6E-01	AE001811.1	NT	Thermotoga maritima section 123 of 136 of the complete genome
6108	18885	31854	2.26	2.6E-01	AF582557.1	EST_HUMAN	ts02a12.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2227438 3' similar to SW:NDP1_RAT Q84288 NEUROGENIC DIFFERENTIATION FACTOR 1; contains element LTR1 repetitive element
6108	18885	31855	2.26	2.6E-01	AF582557.1	EST_HUMAN	ts02a12.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2227438 3' similar to SW:NDP1_RAT Q84288 NEUROGENIC DIFFERENTIATION FACTOR 1; contains element LTR1 repetitive element
6326	19098	32098	0.91	2.6E-01	AL102757.2	NT	Nelusetra methylglucosylase group A strain Z2491 complete genome; segment 67
6570	19334	32344	0.73	2.6E-01	BE762052.1	EST_HUMAN	601581754F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3939169 5'
6570	19334	32345	0.73	2.6E-01	BE762052.1	EST_HUMAN	601581754F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3939169 5'
6638	19673	32719	0.8	2.6E-01	AF194390.1	EST_HUMAN	wd46c04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2331988 3' similar to gb:M37721 PEPTIDYL-GLYCINE ALPHA-AMIDATING MONOOXYGENASE PRECURSOR (HUMAN)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7289	19972	33060	0.62	2.0E-01	BE148061.1	EST_HUMAN	CMO-HT0245-031:199-085-804 HT0245 Homo sapiens cDNA
7328	25110		0.78	2.0E-01	AL139077.2	NT	Campylobacter jejuni NCTC11108 complete genome; segment 4/6
7363	20044		0.69	2.0E-01	AA198749.1	EST_HUMAN	zfp260.1 r1 Striatagene HeLa cell s3 637216 Homo sapiens cDNA clone IMAGE:627672.5
7639	20304	33413	1.9	2.0E-01	R10965.1	EST_HUMAN	y37403.s1 Sources fetal liver spleen 1NELS Homo sapiens cDNA clone IMAGE:128004.3 similar to gb:U12817.1 SMALL NUCLEAR RIBONUCLEOPROTEIN C (HUMAN);
7687	20351	33465	0.66	2.0E-01	Q08955	SWISSPROT	HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C29E6.01 IN CHROMOSOME I
7748	20444	33566	1.3	2.0E-01	R02411.1	EST_HUMAN	y62207.r1 Sources fetal liver spleen 1NELS Homo sapiens cDNA clone IMAGE:124212.5
7804	20489	33620	1.15	2.0E-01	BE144331.1	EST_HUMAN	MRO-HT0106-181:189-003-012 HT0106 Homo sapiens cDNA
8040	20735	33867	0.64	2.0E-01	X62841.1	NT	D.melanogaster mRNA for alpha 1,2 mannosidase (Berlin)
8040	20735	33868	0.64	2.0E-01	X62841.1	NT	D.melanogaster mRNA for alpha 1,2 mannosidase (Berlin)
8232	20928	34064	3.05	2.0E-01	BF343588.1	EST_HUMAN	602014422F1 NC1 CGAP Bm64 Homo sapiens cDNA clone IMAGE:4150398.5
8309	21003	34140	2.13	2.0E-01	Q10169	SWISSPROT	HYPOTHETICAL 78.2 KD PROTEIN C11C11.02 IN CHROMOSOME II
8564	21286	34424	4.32	2.0E-01	BE830339.1	EST_HUMAN	RC6-ET0082-310500-021-F10 ET0082 Homo sapiens cDNA
8594	21286	34425	4.32	2.0E-01	BE830339.1	EST_HUMAN	RC6-ET0082-310500-021-F10 ET0082 Homo sapiens cDNA
9367	21942	35116	0.96	2.0E-01	X17604.1	NT	S. occidentalis INV gene for Invertase (EC 3.2.1.26)
9639	22281		0.62	2.0E-01	AF057121.1	NT	Leontia caradensis cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, complete cds
9768	22419	35626	1.19	2.0E-01	P67306	SWISSPROT	GREEN-SENSITIVE OPSIN (GREEN CONE PHOTORECEPTOR PIGMENT) (KFR-H-G)
9768	22419	35627	1.19	2.0E-01	P67306	SWISSPROT	GREEN-SENSITIVE OPSIN (GREEN CONE PHOTORECEPTOR PIGMENT) (KFR-H-G)
9830	22578		0.48	2.0E-01	U67581.1	NT	Mediomastix jennae section 123 of 160 of the complete genome
10080	22738		0.74	2.0E-01	Q28295	SWISSPROT	VON WILLEBRAND FACTOR PRECURSOR (VWF)
10406	23052		0.9	2.0E-01	Y10106.1	NT	Homo sapiens PHEX gene
10467	23113		0.45	2.0E-01	AB015355.1	NT	Homo sapiens NRAMP2 gene for natural resistance-associated macrophage protein 2, complete cds
11400	24006	37310	1.78	2.0E-01	P48280	SWISSPROT	CELL DIVISION PROTEIN FTSW HOMOLOG
11511	24111		66.41	2.0E-01	X51755.1	NT	Human lambda-like-immunoglobulin constant region complex (germline)
11988	24534		1.71	2.0E-01	10180655	NT	Mus musculus Jeky (Jrk), mRNA
12177	25309		3.1	2.0E-01	BE853491.1	EST_HUMAN	601811052F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912612.5
12242	24693	31077	2.81	2.0E-01	AF316806.1	NT	Homo sapiens NaK-ATPase gamma subunit (FXD2) gene, complete cds, alternatively spliced
12565	24895		1.56	2.0E-01	D88425.1	NT	Cavia cobaya mRNA for acetylcholine kinase, complete cds
12725	24906		2.19	2.0E-01	P47285	SWISSPROT	HYPOTHETICAL PROTEIN MG3039
234	13045	25684	2.55	2.0E-01	4502290	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit (ATP8D), nuclear gene encoding mitochondrial protein, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7252	19936	33011	0.88	2.5E-01	U13982.1	NT	Feline calicivirus GF168 RNA helicase/cysteine protease/RNA-dependent RNA polymerase polyprotein precursor and capsid protein precursor, genes, complete cds; and unknown gene
7278	19982		1.20	2.5E-01	AF134119.1	NT	Mus musculus SKD1 (Skd1) gene, complete cds
7494	20167	33259	0.83	2.5E-01	AL161506.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 18
7536	20206	33303	3.0	2.5E-01	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
7744	20440	33574	2.47	2.5E-01	BF100040.1	EST_HUMAN	757403.x1 Scores_NF_8_PW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3625389 3'
7764	20460	33574	0.8	2.5E-01	BE980712.1	EST_HUMAN	601633391R2.NH_MGC_58 Homo sapiens cDNA clone IMAGE:3826168 3'
8125	20819	33955	1.87	2.5E-01	BF038598.1	EST_HUMAN	601456239F1.NH_MGC_60 Homo sapiens cDNA clone IMAGE:3862806 5'
8296	20860	34128	0.7	2.5E-01	P04492	SWISSPROT	ETB PROTEIN, SMALL T-ANTIGEN (ETB 19K)
8534	21226	34368	3.67	2.5E-01	H53238.1	EST_HUMAN	y84807.t1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:202501 5'
8774	21468	34813	0.79	2.5E-01	M89028.1	NT	Mouse testis-specific protein (TPX-1) gene, exon 10
9416	22094	36285	15.72	2.5E-01	U89051.2	NT	Homo sapiens matrix metalloproteinase MMP Rasi-1 gene, promoter region
9416	22094	36288	15.72	2.5E-01	U89051.2	NT	Homo sapiens matrix metalloproteinase MMP Rasi-1 gene, promoter region
9472	22081	36283	2.06	2.5E-01	AF085164.1	NT	Hordium vulgare receptor-like kinase LRK10 gene, partial cds
9472	22081	36254	2.06	2.5E-01	AF085164.1	NT	Hordium vulgare receptor-like kinase LRK10 gene, partial cds
9698	22646	35658	1.39	2.5E-01	AW681967.1	EST_HUMAN	RC3-ST0186-130100-015-407 ST0186 Homo sapiens cDNA
10441	23087	36816	2.13	2.5E-01	AW152246.1	EST_HUMAN	xg40c10.x1 NCI CGAP_UH Homo sapiens cDNA clone IMAGE:2030034 3' similar to contains Aki repetitive element/contains element MSR1 repetitive element;
10444	23090	36319	1.21	2.5E-01	X68401.1	NT	Mouse L1M4 LINE DNA
11013	23685	36945	3.43	2.5E-01	D50914.1	NT	Human mRNA for KIAA0124 gene, partial cds
11047	24244		1.61	2.5E-01	AF027183.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
11803	24393	37727	1.26	2.5E-01	U46315.1	NT	Limonoides sigmoidalis microfilial sheath protein: SHP1a precursor (shp1a) gene, complete cds
11803	24460	37808	5.12	2.5E-01	AF200528.1	NT	Zea mays cellulose synthase-4 (Cesa-4) mRNA, complete cds
11980	25388		8.13	2.5E-01	AL161541.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 41
12395	24768	30821	1.37	2.5E-01	AF200003.1	NT	Pyrococcus horikoshii OT3 genome DNA, 544001-777000 nt. position (37)
12412	25233	30821	1.37	2.5E-01	AF170072.1	NT	Spodoptera frugiperda CALNUC mRNA, complete cds
540	13323	25955	1.06	2.4E-01	AA936316.1	EST_HUMAN	6n70004.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1562023 3'
828	13598	26289	3.34	2.4E-01	BF576124.1	EST_HUMAN	902132442F1.NH_MGC_61 Homo sapiens cDNA clone IMAGE:4271578 5'
1281	14031	26700	33.63	2.4E-01	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZFL1 gene
1281	14031	26701	33.63	2.4E-01	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZFL1 gene
1303	14111	26785	1.03	2.4E-01	Y11283.1	NT	Homo sapiens FL-1 gene, partial
1843	14581		32.88	2.4E-01	AF267753.1	NT	Mesembryanthemum crystallinum plative potassium channel protein Mktip1 mRNA, complete cds
1883	14630	27340	1.33	2.4E-01	AF261708.1	NT	Zoocys dhumades fructose-1,6-bisphosphatase mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2134	14884	27684	1.1	2.4E-01	AF111188.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
2185	14884		1.44	2.4E-01	P45384	SWISSPROT	IMMUNOGLOBULIN A1 PROTEASE PRECURSOR (IGA1 PROTEASE)
2258	14985	27725	2.28	2.4E-01	AE000680.1	NT	Aquifex sedolicus section 12 of 108 of the complete genome
2882	15104	27843	1.38	2.4E-01	BF002171.1	EST_HUMAN	7h23d04.x1 NCI CGAP_Cort18 Homo sapiens cDNA clone IMAGE:3318807 3' similar to SW:PRSB_XENLA
2939	15254	27884	2.48	2.4E-01	Z38634.1	NT	O42886 20S PROTEASE REGULATORY SUBUNIT 5A:
2765	15470	28213	2.18	2.4E-01	X71783.1	NT	D. discoideum (Ax3-K) pcna gene
2789	15484	28234	2.84	2.4E-01	AF030154.1	NT	S. pombe swf6 gene
3120	15894		2.94	2.4E-01	U72728.1	NT	Bovine adenovirus 3 complete genome
3145	15900	28554	1.48	2.4E-01	X74206.1	NT	Oryza longistaminata receptor kinase-like protein, family member D, and retrofitt (pag/pod) genes, complete cds
3743	16496	28131	0.73	2.4E-01	AE000312.1	NT	H. sapiens AGT gene, Part fragment of Intron 4
4010	18758		0.74	2.4E-01	D23690.1	NT	Escherichia coli K-12 MG1655 section 202 of 400 of the complete genome
4883	17810		1.09	2.4E-01	AL161588.2	NT	Rattus norvegicus mRNA for alpha8 crystallin-related protein, complete cds
4989	17712	30317	0.96	2.4E-01	D00944.1	NT	Arabis thaliana DNA chromosome 4, contig fragment No. 85
5375	18175	30885	0.98	2.4E-01	AB25707.1	EST_HUMAN	Hepatitis C virus genomic RNA for polyprotein, complete cds
6376	18175	30886	0.98	2.4E-01	AB25707.1	EST_HUMAN	wo33405.x1 NCI CGAP_G444 Homo sapiens cDNA clone IMAGE:2457129 3'
6397	18197	30881	0.8	2.4E-01	D00871.1	NT	wo33405.x1 NCI CGAP_G444 Homo sapiens cDNA clone IMAGE:2457129 3'
5569	18306	31275	8.16	2.4E-01	AF001216.1	NT	Glycine max mRNA for mitotic cyclin b1-type, complete cds
5590	18368	31276	8.16	2.4E-01	AF001216.1	NT	Mus musculus Wm protein (Wm) gene, complete cds
5697	18382		0.77	2.4E-01	M83377.1	NT	Mus musculus Wm protein (Wm) gene, complete cds
5709	25076		0.90	2.4E-01	AJ133838.2	NT	Caullus gallus brain-derived neurotrophic factor (BDNF) gene, 5' end
						NT	Branchiostoma floridae mRNA for calmodulin 2 (calM2) gene
5805	18595	31520	2.22	2.4E-01	BF592336.1	EST_HUMAN	7b5404.x1 NCI CGAP_Br18 Homo sapiens cDNA clone IMAGE:3338503 3' similar to SW:SFR4_HUMAN
5895	18680	31627	3	2.4E-01	AF035548.1	NT	Q08170 SPLICING FACTOR, ARGININE/SERINE-RICH 4, contains element TAR1 TAR1 repetitive element
5899	18780	31741	2.83	2.4E-01	7981801	NT	Oreochromis mola p38a MAP kinase gene, complete cds
8050	18830	31763	0.87	2.4E-01	AV733787.1	EST_HUMAN	Homo sapiens HSPC142 protein (HSPC142), mRNA
						EST_HUMAN	AV733787 cDNA Homo sapiens cDNA clone cdaADE11 5'
8441	19209	32206	2.28	2.4E-01	AB068899.1	EST_HUMAN	wo221f1.x1 NCI CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2323220 3' similar to gb_X03484
7243	19628	33004	0.6	2.4E-01	LA3001.1	NT	PROCOLLAGEN ALPHA 2(I) CHAIN PRECURSOR (HUMAN);
7404	20081	33163	0.85	2.4E-01	N48732.1	EST_HUMAN	Bos taurus guaninyl cyclase-activating protein 2 (guca2) mRNA, complete cds
7625	20231	33400	0.81	2.4E-01	AF228944.1	NT	y95611.1.t1 Source, multiple, sclerotic 2H14MSP Homo sapiens cDNA clone IMAGE:277460 5'
8247	20641	34078	1.61	2.4E-01	AJ012385.1	NT	Mus musculus DXH2048 protein (DXH2048) mRNA, complete cds
						NT	Tetrahymena thermophila macronuclear gene encoding ribosomal protein L3, exons 1-2

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8497	21189	34332	1.02	2.4E-01	BF242794.1	EST_HUMAN	801877079F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4102288 5'
8552	21244		0.47	2.4E-01	BF678275.1	EST_HUMAN	802086188F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250372 5'
9030	21720	34874	0.49	2.4E-01	AL130077.2	NT	Campylobacter jejuni NCTC11168 complete genome; segment 4/8
9030	21720	34875	0.49	2.4E-01	AL130077.2	NT	Campylobacter jejuni NCTC11168 complete genome; segment 4/8
9483	22013		7.01	2.4E-01	AI693515.1	EST_HUMAN	wd43602.x1 Soares_NFL_T_GBC_S11 Homo sapiens cDNA clone IMAGE:2330905 3' similar to contains MER22.b1 TAR1 repetitive element
9603	22256	35141	0.88	2.4E-01	AF220067.1	NT	Drosophila melanogaster SKPB gene, complete cds
9603	22256	35442	0.88	2.4E-01	AF220067.1	NT	Drosophila melanogaster SKPB gene, complete cds
10337	22984	36202	1.68	2.4E-01	Q03962	SWISSPROT	COLLAGEN ALPHA 1(X) CHAIN PRECURSOR
10667	23358	36598	4.6	2.4E-01	AL101494.2	NT	Azobidopsis thaliana DNA chromosome 4, contig fragment No. 6
10739	23428	36671	1.39	2.4E-01	AF030190.1	NT	Mus musculus type 1 sigma receptor gene, complete cds
11159	23825		2.09	2.4E-01	Z21847.1	NT	P. asiatica mosaic virus genomic RNA
11840	24424	37765	1.32	2.4E-01	BE617638.1	EST_HUMAN	80141421T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846838 3'
11891	24461	37801	1.75	2.4E-01	AF217491.1	NT	Homo sapiens fragile 100 oxidoreductase (FOR) gene, exon 6
12019	25180		2.34	2.4E-01	AF004213.1	NT	Arabidopsis thaliana ethylene-insensitive3-like1 (EIL1) mRNA, complete cds
12080	24588		2.74	2.4E-01	AJ278191.1	NT	Mus musculus mRNA for putative mo7 protein (mo7 gene)
12287	25102		1.97	2.4E-01	V01007.1	NT	Cellus galus gene coding for e-actin
12400	25201		2.08	2.4E-01	BF184642.1	EST_HUMAN	801842948F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4065739 5'
12720	24992		3.66	2.4E-01	AL183281.2	NT	Homo sapiens chromosome 21 segment HS21G081
380	13167	25810	1.06	2.3E-01	S75968.1	NT	acrometase [Pocillia guttata-zabza finches, ovary, mRNA, 3188 nt]
622	13401		6	2.3E-01	U39713.1	NT	Mycoplasma genitalium section 35 of 51 of the complete genome
652	13430	28069	33.31	2.3E-01	U67568.1	NT	Methanococcus jannaschii section 138 of 150 of the complete genome
913	13080	26341	4.19	2.3E-01	BE511683.1	EST_HUMAN	801142073F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3600818 5'
1558	14305		1.12	2.3E-01	U22837.2	NT	Yersinia pestis HmsH (HmsH), HmsF (HmsF), HmsR (HmsR), and HmsS (HmsS) genes, complete cds
1599	14345	27035	1.23	2.3E-01	AJ245480.1	NT	Brassica napus alg gene for S-locus glycoprotein, cultivar T2
1628	14374	27063	2.74	2.3E-01	Y10887.2	NT	Mus musculus cdh9 gene, exon 1, partial
2038	14772		1.51	2.3E-01	AJ255953.1	NT	Homo sapiens partial intron 3 of the wild type AF-4FEL gene
2447	15196	27603	2.66	2.3E-01	BE297718.1	EST_HUMAN	801175682F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531015 5'
2657	15397	28105	1.59	2.3E-01	MT11319.1	NT	Human erythropoietin gene, complete cds
2827	14114	28789	3.38	2.3E-01	AB015033.1	NT	Moraxella agrippae gnb gene for DNA gyrase subunit B, partial cds, strain:FO 14957
2863	15729	28379	1.96	2.3E-01	AA001378.1	EST_HUMAN	ncf6008.s1 NCI_COAP_Phe1 Homo sapiens cDNA clone IMAGE:1100943 3' similar to contains Alu repetitive element/contains element THR repetitive element
3082	15847		7.07	2.3E-01	R21732.1	EST_HUMAN	yh21507.s1 Soares_penicillina Nb2HP Homo sapiens cDNA clone IMAGE:130357 3'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3363	16122	28780	1.14	2.3E-01	H08833.1	EST_HUMAN	y97h10.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:213283 5'
3821	16573	29205	1.01	2.3E-01	S92821.1	NT	GSTA5-glutathione S-transferase Yc2 subunit (5' region, intron 1) [rat, Morris hepatoma cell line, Genomic, 2212 nt, segment 1 of 3]
3914	16594		5.22	2.3E-01	7662133	EST_HUMAN	Homo sapiens KIAA0450 gene product (KIAA0450), mRNA
4316	17055	29080	1.1	2.3E-01	R82262.1	EST_HUMAN	Y1701.1 Scores placenta NB21P Homo sapiens cDNA clone IMAGE:149017 5'
4368	17106		1.98	2.3E-01	L78789.1	NT	Mus musculus renin (Ren-1c) gene, promoter region
4417	17163	29784	1.03	2.3E-01	D60989.1	NT	Synechocystis sp. PCC6803 complete genome, 127, 1-133559
4454	17190	29816	2.51	2.3E-01	AF192235.1	NT	Homo sapiens mitogen-activated protein kinase p38delta (PRKM13) mRNA, complete cds
4517	17252	29887	6.19	2.3E-01	5031984	NT	Homo sapiens nuclear transport factor 2 (p15cental protein 15) (PP15) mRNA
4988	17711	30318	0.84	2.3E-01	A803240.1	NT	Mus musculus tulip 1 mRNA, complete cds
5221	18028	30654	2.53	2.3E-01	A8040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
5343	18148	30825	2.08	2.3E-01	BF068891.1	EST_HUMAN	7130606.x1 NCJ CGAP_OY18 Homo sapiens cDNA clone IMAGE:3476999 3' similar to SW:GAG SMSAV
5443	18242	31130	4.98	2.3E-01	X06587.1	NT	P03330 GAG POLYPEPTIDE [CONTAINS: CORE PROTEIN P15; INNER COAT PROTEIN P12; CORE
5563	18390		0.84	2.3E-01	L39112.1	NT	SHELL PROTEIN P30; NUCLEOPROTEIN P10];
5686	18460	31374	0.76	2.3E-01	S00371.1	NT	C.familis rrm1 gene
5851	18638	31575	1.59	2.3E-01	A1708840.1	EST_HUMAN	23S rRNA [Leuconostoc carnosum, Genomic, 2868 nt]
5851	18639	31576	1.59	2.3E-01	A1708840.1	EST_HUMAN	sa27/612.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2318446 3' similar to gb:X13238
5958	18323	32330	0.93	2.3E-01	AF198089.1	NT	CYTODROME C OXIDASE POLYPEPTIDE VIC PRECURSOR (HUMAN)
6778	19522	32549	4.33	2.3E-01	A1718148.1	EST_HUMAN	sa27/612.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2318446 3' similar to gb:X13238
7011	19703	32769	1.08	2.3E-01	8623323	NT	CYTODROME C OXIDASE POLYPEPTIDE VIC PRECURSOR (HUMAN)
7188	19874	32947	0.9	2.3E-01	AF000227.1	NT	sa27/612.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2318446 3' similar to gb:X13238
7316	19969	33077	3.14	2.3E-01	AF176369.1	NT	CYTODROME C OXIDASE POLYPEPTIDE VIC PRECURSOR (HUMAN)
7318	20001	33079	0.64	2.3E-01	AV1719681.1	EST_HUMAN	cytochrome c oxidase subunit VIa (cox1a2) mRNA, complete cds, nuclear gene for
7318	20001	33080	0.64	2.3E-01	AV1719681.1	EST_HUMAN	mitochondrial product
7508	20179		2.94	2.3E-01	8754779	NT	sa27/612.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2318446 3' similar to gb:X13238
7513	20184	33278	1.38	2.3E-01	BE888071.1	EST_HUMAN	repetitive element
7652	20316		2.73	2.3E-01	N80889.1	EST_HUMAN	Homo sapiens hypophyseal protein FLJ20345 (FLJ20345), mRNA
7760	20446	33569	0.71	2.3E-01	AL161558.2	NT	Socle cereale omega seedin gene, complete cds

Page 86 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7692	20987	33717	2.16	2.3E-01	M88931.1	NT	Oxytela nova macronuclear telomere-binding protein alpha subunit (tel-alpha alanine version) gene, complete cds
8391	21084	34217	0.47	2.3E-01	U57069.1	NT	Mus musculus procapn (nasp/SGP-1) gene, complete cds
8671	21383	34510	0.56	2.3E-01	AW080541.1	EST_HUMAN	xc60606.x1 NC1 CGAP Brn35 Homo sapiens cDNA clone IMAGE:2891534 3'
8766	21478	34627	0.46	2.3E-01	AW904460.1	EST_HUMAN	EST1379533 MAGE resequences, MAGE Homo sapiens cDNA
9039	21729	34883	1.02	2.3E-01	AA372164.1	EST_HUMAN	EST184081 Rhadomyomaoma Homo sapiens cDNA 5' end similar to DnaJ homolog (GB:X633568)
9039	21729	34884	1.02	2.3E-01	AA372164.1	EST_HUMAN	EST184081 Rhadomyomaoma Homo sapiens cDNA 5' end similar to DnaJ homolog (GB:X633568)
9480	22133	35313	0.62	2.3E-01	6079318	NT	Mus musculus phosphatidylinositol 3-kinase catalytic subunit delta (PIK3cd), mRNA
9608	22262	35448	0.62	2.3E-01	U17974.1	NT	Tribolium castaneum transcription factor homolog (Tc-eyf) gene, complete cds
9628	22281	35471	0.5	2.3E-01	BE277860.1	EST_HUMAN	801120110F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2966736 5'
9682	22334	35529	0.56	2.3E-01	AW904460.1	EST_HUMAN	EST1379533 MAGE resequences, MAGE Homo sapiens cDNA
9731	22382	35584	1.02	2.3E-01	X82124.1	NT	Haemophilus influenzae genes for HincII restriction-modification system (HincII methyltransferase (EC 2.1.1.72) and HincII endonuclease (EC 3.1.21.4))
9767	22419	35625	0.58	2.3E-01	AW364633.1	EST_HUMAN	PM2-DT00396-281299-001-f04 DT00396 Homo sapiens cDNA
9834	22485	35686	2.45	2.3E-01	BE173060.1	EST_HUMAN	MF0-HT0559-240400-014-g11 HT0559 Homo sapiens cDNA
9892	22542	35734	2.75	2.3E-01	AJ283261.1	NT	Rhizobium leguminosarum partial genomic DNA for exopolysaccharide biosynthesis genes
10340	22987	38205	0.84	2.3E-01	AF201929.1	NT	Murine hepatitis virus strain 2, complete genome
10351	22988	38206	5.11	2.3E-01	BF133577.1	EST_HUMAN	801846155R2 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:4102092 3'
10937	23617	36987	1.49	2.3E-01	AF004633.1	NT	Mus musculus tissue factor pathway inhibitor (TFPI) mRNA, complete cds
10937	23617	36988	1.49	2.3E-01	AF004633.1	NT	Mus musculus tissue factor pathway inhibitor (TFPI) mRNA, complete cds
11144	23811	37062	1.77	2.3E-01	AJ250189.1	NT	Mus musculus partial mRNA for muscle protein 834 (mg834 gene)
11144	23811	37063	1.77	2.3E-01	AJ250189.1	NT	Mus musculus partial mRNA for muscle protein 834 (mg834 gene)
11324	24015	37318	3.03	2.3E-01	AE002167.2	NT	Chlamydomonas reinhardtii AF39, section 1 of 94 of the complete genome
11815	24403		1.78	2.3E-01	AV709736.1	EST_HUMAN	AV709736 ADC Homo sapiens cDNA clone ADCAHQ1 5'
11855	24439		1.33	2.3E-01	6000010	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), transcript variant b, mRNA
12004	24539		4.47	2.3E-01	U45426.1	NT	Borrelia burgdorferi 23-9 locus, ORF-A-D genes, complete cds and REP+ genes, partial cds
12088	24593		4.88	2.3E-01	T27281.1	EST_HUMAN	HCOEST44 HT20M6 Homo sapiens cDNA clone HCOE44 5'
12120	24612		1.62	2.3E-01	AW88940.1	EST_HUMAN	PM4-SN0012-030400-001-636 SN0012 Homo sapiens cDNA
12173	25319	30711	2.88	2.3E-01	AW309623.1	EST_HUMAN	xc21d07.x1 Soares, NFL_T_QBC, S1 Homo sapiens cDNA clone IMAGE:2813773 3' similar to TR-O82175
12206	25306	30613	8.03	2.3E-01	BE862464.1	EST_HUMAN	QB2175 LYSYL OXIDASE-RELATED PROTEIN 2, contains PFR5.b2 TARY repetitive element ;
12255	24701		2.51	2.3E-01	BF863310.1	EST_HUMAN	601507202F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:300889 5'
							602144450F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4297719 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12303	24728		2.35	2.3E-01	AIJ006519.1	NT	Rattus norvegicus mRNA for acid galact 10 channel
12398	24784		1.76	2.3E-01	U48845.1	NT	Pleurodeles walli distal-less like protein PwDlx-3 (PwDlx-3) mRNA, complete cds
12403	24728		1.55	2.3E-01	AIJ006519.1	NT	Rattus norvegicus mRNA for acid galact 10 channel
12947	24952		2	2.3E-01	BF478611.1	EST HUMAN	neoc38H12X1 Lysylid, acidic, nerve Homo sapiens cDNA clone IMAGE:3395950 3' similar to contains element MER38 repetitive element
88	12914	25552	1.83	2.2E-01	A052190.1	EST HUMAN	cc14et10.x1 Soares, fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:1976290 3' similar to
1557	14304	29683	1.04	2.2E-01	AF187890.1	NT	TR-O13040 Q13040 ATP-BINDING CASSETTE PROTEIN;
2082	14814	27547	2.52	2.2E-01	M34640.1	NT	Homo sapiens PPAR delta gene, promoter region
2402	15123	27890	6.3	2.2E-01	BF077538.1	EST HUMAN	Fresh-water sponge Emfil alpha collagen (COLF1) gene
2594	15308	28044	2.02	2.2E-01	BE018298.1	EST HUMAN	602085008F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249980 5'
2594	15308	28045	2.02	2.2E-01	BE018298.1	EST HUMAN	601462028F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:3986190 5'
2884	15651	28294	4.36	2.2E-01	BE155925.1	EST HUMAN	601462028F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:3986190 5'
2884	15651	28295	4.36	2.2E-01	BE155925.1	EST HUMAN	PM2-HT0353-281298-003-e12 HT0353 Homo sapiens cDNA
2921	15987		1.57	2.2E-01	AF020503.1	NT	PM2-HT0353-281298-003-e12 HT0353 Homo sapiens cDNA
3387	16146		1.87	2.2E-01	AF161582.2	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHT) gene, exon 6
3794	16546		1.12	2.2E-01	AF155728.1	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 62
4105	16848		0.72	2.2E-01	U68174.1	NT	Xenopus maculatus truncated Rict1 neurotensin reverse transcriptase (RT) pseudogene
4194	16935	29562	0.45	2.2E-01	AF158142.1	NT	Mus musculus breast/ovarian cancer susceptibility protein (BRCA1) mRNA, complete cds
4232	16973	29597	2.11	2.2E-01	AF117340.1	NT	Mus musculus ribase kinase 3 (Mlik3) and two pore domain K+ channel subunit (Kcnld) genes, complete cds
4232	16973	29598	2.11	2.2E-01	AF117340.1	NT	Mus musculus MAP kinase kinase kinase 1 (Meek1) mRNA, complete cds
4323	17062	29688	1.21	2.2E-01	U01307.1	NT	Mus musculus MAP kinase kinase kinase 1 (Meek1) mRNA, complete cds
4323	17062	29690	1.21	2.2E-01	U01307.1	NT	Human scRNA (BC200 beta) pseudogene
4715	17507		1.35	2.2E-01	D55004.1	NT	Human beta-cytoplasmic actin (ACTBP9) pseudogene
4779	17511	30133	2.1	2.2E-01	AA211216.1	EST HUMAN	z987c05.1 Straggers INT neuron (#937233) Homo sapiens cDNA clone IMAGE:545908 5'
4882	17705		1.1	2.2E-01	L13299.1	NT	Mus musculus vinculin gene, exon 3
5082	17761		0.83	2.2E-01	S57565.1	NT	histamine H2-receptor [rat], Genbank, 1928 nt]
5140	17958	30474	2.04	2.2E-01		9839674/NT	Yluas chrysothrix mitochondrion, complete genome
5659	18454	31368	2.07	2.2E-01		5803002/NT	Homo sapiens diaphanous (Drosophila, homolog) 2 (DIAPH2), transcript variant 156, mRNA
5669	18464		4.5	2.2E-01	D64000.1	NT	Synchocystis sp. PCC6803 complete genome, 1927, 2362729-2538899
5910	18994	31646	0.96	2.2E-01	U67087.1	NT	Gallus gallus T-box containing protein (Ch-Tbx7) mRNA, complete cds
5910	18994	31647	0.96	2.2E-01	U67087.1	NT	Gallus gallus T-box containing protein (Ch-Tbx7) mRNA, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6608	19369	32381	0.73	2.2E-01	AB039400.1	NT	Homo sapiens gene for tubulin, complete cds
6626	19662	32708	10.21	2.2E-01	AV780238.1	EST_HUMAN	AV780238 BM Homo sapiens cDNA clone BMFAH006 5'
7029	19721	32777	1.28	2.2E-01	AF082738.1	NT	Streptococcus pyogenes phosphatidylglycerophosphate synthase (pgsA) and ABC transporter ATP-binding protein (atpA) genes, complete cds; and unknown genes
7029	19721	32778	1.28	2.2E-01	AF082738.1	NT	Streptococcus pyogenes phosphatidylglycerophosphate synthase (pgsA) and ABC transporter ATP-binding protein (atpA) genes, complete cds; and unknown genes
7191	19877	32950	1.88	2.2E-01	M24138.1	NT	Human glycophorin B gene, exon 4
7191	19877	32951	1.88	2.2E-01	M24138.1	NT	Human glycophorin B gene, exon 4
7386	20066	33144	0.63	2.2E-01	AE000035.2	NT	Mycoplasma pneumoniae M129 section 45 of 63 of the complete genome
7628	20294	33402	0.86	2.2E-01	AB024593.1	NT	Bacillus halodurans DNA, complete and partial cds, strain C-125
7919	20814	33908	2.04	2.2E-01	AF158143.1	NT	Mus musculus nm23-MT gene, promoter region
7987	20862	33908	1.01	2.2E-01	Z49633.1	NT	E.coli sepA and sepB genes
8449	21141	34279	0.64	2.2E-01	AJ132918.1	NT	Penicillium Marf2 gene 3'UTR
8794	21488	34652	3.53	2.2E-01	AE007713.1	NT	Thermoplasma maritima section 25 of 136 of the complete genome
8820	21611	34853	4.35	2.2E-01	AW85039.1	EST_HUMAN	PM3-CT0263-241299-009-b07 CT0263 Homo sapiens cDNA
9013	21703	34853	1.45	2.2E-01	8393247	NT	Mus musculus deformed epidermal autoregulatory factor 1 (Deraephila) (Deaf1), mRNA
9088	21786	34852	1.04	2.2E-01	BF376354.1	EST_HUMAN	MF1-TN0045-11090-005-02 TN0045 Homo sapiens cDNA
9189	21859	35024	1.36	2.2E-01	W02988.1	EST_HUMAN	zao408.11 Soares melanocyte ZNDHM Homo sapiens cDNA clone IMAGE:291591 5'
9207	22086	35259	13.43	2.2E-01	P48634	SWISSPROT	LARGE PROLINE-RICH PROTEIN BAT2 HLA-B-ASSOCIATED TRANSCRIPT 2
9252	21831	35104	0.86	2.2E-01	AJ008839.1	NT	Xenopus laevis mRNA for kinin-like protein 3 (kdp3)
9293	22017	35185	0.81	2.2E-01	7957428	NT	Mus musculus osteoblast specific factor 2 (OSF-2), mRNA
9276	22030	35200	3.95	2.2E-01	M88643.1	NT	Breidysarbio neri spandynin beta and gamma chains (Epd) genes, complete cds
9521	22174	35358	0.88	2.2E-01	Q80880	SWISSPROT	CYCLOC NUCLEOTIDE GATED CHANNEL, ROD PHOTORECEPTOR, ALPHA SUBUNIT (CNG CHANNEL 3) (CNG-3) (CNG3)
9716	22596	35564	3.4	2.2E-01	AF197941.1	NT	Funaria hygrometrica chloroplast-localized small heat shock protein (CP-HSP21) mRNA, complete cds;
9853	22803	35703	1.85	2.2E-01	BF208007.1	EST_HUMAN	nuclear gene for chloroplast product
10076	22724	36941	0.95	2.2E-01	9625671	NT	801899724F1 NIH JMG.C.19 Homo sapiens cDNA clone IMAGE:4100189 5'
10232	22880	36902	0.6	2.2E-01	T89472.1	EST_HUMAN	Human herpesvirus 6, complete genome
10232	22880	36903	0.5	2.2E-01	T89472.1	EST_HUMAN	X453403.1 Stragene ovary (#837217) Homo sapiens cDNA clone IMAGE:75855 5'
							X453403.1 Stragene ovary (#837217) Homo sapiens cDNA clone IMAGE:75855 5'
							Pseudomonas aeruginosa quinolone efflux dehydrogenase (exaA) gene, partial cds; cytochrome c550 precursor (exbB), NAD+ dependent acetylaldehyde dehydrogenase (exaC), and pyrroloquinoline quinone synthase A (exaD) genes, complete cds; and pyrroloquinone
10298	22916	36128	0.88	2.2E-01	AF088264.1	NT	Mus musculus PHR1 (Phr1) gene, partial cds
10341	22988		0.81	2.2E-01	AF071001.1	NT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10387	23033	36247	0.6	2.2E-01	AE001562.1	NT	Helicobacter pylori, strain 300 section 123 of 132 of the complete genome
10387	23033	36248	0.6	2.2E-01	AE001562.1	NT	Helicobacter pylori, strain 300 section 123 of 132 of the complete genome
10520	23166	36364	0.48	2.2E-01	AF046720.1	NT	Homo sapiens neuronal nitric oxide synthase (NOS1) gene, alternative exons 11 and AS
11070	23740	37014	1.56	2.2E-01	AF257772.1	NT	Homo sapiens RNA binding protein MCG10 gene, complete cds, alternatively spliced
11164	23831	37110	1.46	2.2E-01	AB021083.1	NT	TT virus ORF1 gene, isolate TS44-I, partial cds
11399	24005	37309	4.83	2.2E-01	X01918.1	NT	Drosophila 88C glue gene cluster
11438	23203	36437	5.22	2.2E-01	7708215	NT	Homo sapiens H-2K binding factor-2 (LOC51860), mRNA
11835	24483		1.66	2.2E-01	BE870698.1	EST_HUMAN	80144657F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850070 5'
12040	25380		2.21	2.2E-01	U82071.2	NT	Homo sapiens chromosome Xc28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), cathecin (GALT), NAD(P)H dehydrogenase-like protein (NSDHL), and L2
12123	24815		2.19	2.2E-01	AF188943.1	NT	Vitis vinifera cultivar Pinot Noir plasma membrane aquaporin (PIP1a) mRNA, complete cds
12225	17904	30501	3.87	2.2E-01	AF361098.1	EST_HUMAN	RC1-GT0249-141199-021-g04 GT0249 Homo sapiens cDNA
12226	24881		1.6	2.2E-01	AW061922.1	EST_HUMAN	HT7602.x1 NCI CGAP_GUT Homo sapiens cDNA clone IMAGE:2872523 3'
12731	25371		2.56	2.2E-01	AV694901.1	EST_HUMAN	AV694901 GKG Homo sapiens cDNA clone GKG4HB02 5'
950	13716	26382	2.12	2.1E-01	AA596289.1	EST_HUMAN	nm31e1.1 NCI CGAP_Lip2 Homo sapiens cDNA clone IMAGE:1061804
953	13718	26384	0.77	2.1E-01	AL161504.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 16
1102	13859		2.76	2.1E-01	AE002314.2	NT	Chlamydia muridarum, section 45 of 89 of the complete genome
1176	13929	26503	1.15	2.1E-01	6754290	NT	Mus musculus interferon (alpha and beta) receptor 2 (Ifnar2), mRNA
1176	13929	26504	1.15	2.1E-01	6754290	NT	Mus musculus interferon (alpha and beta) receptor 2 (Ifnar2), mRNA
1906	14643	27353	2.07	2.1E-01	AA009824.1	EST_HUMAN	gk73602.x1 NCI CGAP_GC4 Homo sapiens cDNA clone IMAGE:1519610 3' similar to gb:K02765
2152	14882	27616	4.2	2.1E-01	BF685073.1	EST_HUMAN	COMPLEMENT C3 PRECURSOR (HUMAN):
2465	15596	27842	1	2.1E-01	HT3908.1	EST_HUMAN	602083120F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4247603 5'
2465	15596	27843	1	2.1E-01	HT3908.1	EST_HUMAN	y04407.x1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:282837 3'
2556	15270	28005	0.91	2.1E-01	AF022814.1	NT	y04407.x1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:282837 3'
2925	15991	28335	2.3	2.1E-01	6612445	NT	Fugu rubripes transcription factor (SLP-1) and home-oxenase genes, complete cds
3796	16538		6.08	2.1E-01	9633361	NT	Homo sapiens potassium voltage-gated channel, subfamily H (seg-related), member 4 (KCNH4), mRNA
4032	16777	29408	1.1	2.1E-01	P11675	SWISSPROT	Beta vulgaris mitochondrion, complete genome
4032	16777	29408	1.1	2.1E-01	P11675	SWISSPROT	IMMEDIATE-EARLY PROTEIN IE180
4343	17082		1.77	2.1E-01	AB033041.1	NT	IMMEDIATE-EARLY PROTEIN IE180
4537	17272	28904	1.23	2.1E-01	AB010273.1	NT	Homo sapiens mRNA for KIAA1215 protein, partial cds
5013	17734	30341	1.4	2.1E-01	Q01338	SWISSPROT	Homo sapiens pataph47 gene, complete cds
							ALPHA-2A ADRENERGIC RECEPTOR (ALPHA-2AAR)

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6090	17809	30425	1.09	2.1E-01	AE001628.1	NT	Helicobacter pylori, strain J99 section 87 of 132 of the complete genome
6218	19026	30650	0.24	2.1E-01	BF072695.1	EST_HUMAN	802152001F1 NIH_MGC.81 Homo sapiens cDNA clone IMAGE:4293001.5'
6787	19631	32559	1.4	2.1E-01	AJ223392.1	NT	Dodo fragilis mitochondrial 16S rRNA gene, partial
6706	19459	32481	1.82	2.1E-01	U04842.1	NT	Human olfactory receptor (OR17-2) gene, partial cds
7306	19899	33095	0.95	2.1E-01	Q01896	SWISSPROT	VOLTAGE-GATED POTASSIUM CHANNEL PROTEIN KV3.3 (KSHIID)
7306	19899	33096	0.95	2.1E-01	Q01896	SWISSPROT	VOLTAGE-GATED POTASSIUM CHANNEL PROTEIN KV3.3 (KSHIID)
7317	20000		2.38	2.1E-01	AE000072.1	NT	Archaeoglobus fulgidus section 135 of 172 of the complete genome
7609	20272	33380	1.94	2.1E-01	AF000949.1	NT	Canis familiaris keratin (KRT19) gene, complete cds
7651	20315	33425	1.22	2.1E-01	AF069887.1	NT	Glycine max malate dehydrogenase (Mdh-2) gene, nuclear gene encoding mitochondrial protein, partial cds
7651	20315	33426	1.22	2.1E-01	AF069887.1	NT	Glycine max malate dehydrogenase (Mdh-2) gene, nuclear gene encoding mitochondrial protein, partial cds
7971	20688		1.21	2.1E-01	7305030	NT	Mus musculus erythrocyte protein band 4.1-like 3 (Epb4.13), mRNA
8400	21063	34229	4.44	2.1E-01	U68390.1	NT	Haemophilus influenzae hmdD, putative haemochromatosis protein (hmdC), putative ABC transporter (hmdB), putative haemochromatosis protein (hmdA), and haemochromatosis protein (hmdC) genes, complete cds
8696	21388	34531	0.86	2.1E-01	AL040587.1	EST_HUMAN	DKFZP434H0814.1 434 (synonym: hnc3) Homo sapiens cDNA clone DKFZP434H0814.5'
8696	21388	34532	0.86	2.1E-01	AL040587.1	EST_HUMAN	DKFZP434H0814.1 434 (synonym: hnc3) Homo sapiens cDNA clone DKFZP434H0814.5'
8857	21548		0.45	2.1E-01	AB022624.1	NT	Homo sapiens APC1 gene, exon 9
8835	21828	34768	5.68	2.1E-01	Z35786.1	NT	S. cerevisiae chromosome II reading frame ORF YBL025w
9404	22066	35237	0.57	2.1E-01	N42536.1	EST_HUMAN	Y11610.1 Soares melanocyte 2NH-M1 Homo sapiens cDNA clone IMAGE:270684.5'
9404	22066	35238	0.57	2.1E-01	N42536.1	EST_HUMAN	Y11610.1 Soares melanocyte 2NH-M1 Homo sapiens cDNA clone IMAGE:270684.5'
9413	22061	35262	2.31	2.1E-01	X67378.1	NT	A.thaliana mRNA for ATRAP-1b protein
9518	22171	35354	1.13	2.1E-01	AB030629.1	NT	Homo sapiens p33k2 gene for ribonucleotide reductase, exon 6
10227	22875	36088	1.47	2.1E-01	Z97087.1	NT	Beta vulgaris mRNA for elongation factor 1-beta
10258	22806	36110	2.5	2.1E-01	P52824	SWISSPROT	DIACYLGLYCEROL KINASE, DELTA (DIGLYCERIDE KINASE) (DGK-DELTA) (DAG KINASE DELTA)
10284	22912	36122	0.97	2.1E-01	BF574254.1	EST_HUMAN	(80 KD) DIACYLGLYCEROL KINASE
11564	24153		2.19	2.1E-01	11038647	NT	Homo sapiens peroxisomal polypeptide 2 (PPY2), mRNA
11572	24171	37487	1.59	2.1E-01	BE180422.1	EST_HUMAN	RC3-H17022-040503-013-b11 HT0622 Homo sapiens cDNA
11870	24944		1.38	2.1E-01	X57624.1	NT	Drosophila melanogaster ALA-E6 DNA, repeat region
12377	24775		2.07	2.1E-01	AF217480.1	NT	Homo sapiens fragile 18D oxidoreductase (FOR) gene, exons 8, 9, and partial cds
12578	25287		1.47	2.1E-01	L32688.1	NT	Homo sapiens granulin gene
12635	24935		1.42	2.1E-01	BE622149.1	EST_HUMAN	901440712F1 NIH_MGC.72 Homo sapiens cDNA clone IMAGE:3915975.5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12758	25019	30960	1.79	2.1E-01	BE672330.1	EST_HUMAN	745902.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:3223034 3'
195	13008	26860	2.43	2.0E-01	AB017437.1	NT	Gallus gallus mRNA for avian, complete cds
521	13305		3.11	2.0E-01	7705001	NT	Homo sapiens CGI-18 protein (LOC51008), mRNA
683	13458	26103	1.24	2.0E-01	M177085.1	NT	O. carinatus gemline Igt heavy chain V-H pseudogene, allotype VH2
792	13564	26228	2.19	2.0E-01	AF027886.1	NT	Mus musculus Major Histocompatibility Locus class II region
901	13753	26414	1.09	2.0E-01	D60606.1	NT	Synchytrium sp. PCO3803 complete genome, 7/27, 781449.920916
1103	13990	26519	2.47	2.0E-01	AL168213.2	NT	Homo sapiens chromosome 21 segment HS21G013
1232	13981	26651	1.77	2.0E-01	AL132895.5	NT	Homo sapiens rec1 gene
1285	14035	26706	1.63	2.0E-01	AW384637.1	EST_HUMAN	PM1-HT0422-201298-002-c06 HT0422 Homo sapiens cDNA
1443	14180		1.82	2.0E-01	AL243957.1	NT	Plum pox virus strain M, complete genome, isolate PS
1470	14217	26804	14.63	2.0E-01	4603408	NT	Homo sapiens dyarabrevin, alpha (DTNA), mRNA
1544	14290	26977	1.97	2.0E-01	AB007874.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0505
1550	14296	26983	1.01	2.0E-01	AF200700.1	NT	Homo sapiens sodium/folate symporter mRNA, partial cds
1692	14436	27132	1.4	2.0E-01	U22348.1	NT	Human bradykinin B1 receptor (bradykinin) gene, complete cds
1712	14455		1.87	2.0E-01	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
1752	14494		4.33	2.0E-01	U67525.1	NT	Methanococcus jannaschii section 67 of 150 of the complete genome
1893	14520	27329	1.12	2.0E-01	BE871330.1	EST_HUMAN	801449441F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3853330 5'
1893	14520	27330	1.12	2.0E-01	BE871330.1	EST_HUMAN	801449441F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3853330 5'
2347	15070		1.63	2.0E-01	X62877.1	NT	H. sapiens Net-D-glucose cotransport regulator gene
3555	18310		0.71	2.0E-01	AW238005.1	EST_HUMAN	xp15502.x1 NCL CGAP_HN6 Homo sapiens cDNA clone IMAGE:2740395 3' similar to contains element MER21 repetitive element
3563	18447	29087	0.89	2.0E-01	P34641	SWISSPROT	GED-11 PROTEIN
3822	16574	29206	1.12	2.0E-01	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21G004
3938	18986	29327	0.76	2.0E-01	Z46906.1	NT	Sus scrofa
4528	17263		8.49	2.0E-01	BE826165.1	EST_HUMAN	QV4-EN0032-160500-223-e03 EN0032 Homo sapiens cDNA
4979	17702	30309	5.26	2.0E-01	8622080	NT	Homo sapiens hypothetical protein ASH1 (ASH1), mRNA
5009	16237	28893	0.8	2.0E-01	P46907	SWISSPROT	HOMEOBOX PROTEIN GLABRA2 (HOMEOBOX-LEUCINE ZIPPER PROTEIN ATHB-10) (HD-ZIP PROTEIN ATHB-10)
5359	18161	30845	2.63	2.0E-01	X56800.1	NT	Rat SOD-2 gene for manganese-containing superoxide dismutase
5655	18450	31383	1.84	2.0E-01	11432540	NT	Homo sapiens dual adenosine-like domains 2 (DUOX2), mRNA
5750	18542	31464	0.78	2.0E-01	X01859.1	NT	F. rubripes DNA encoding for vefy-rRNA synthetase
5998	18751	31712	6.3	2.0E-01	U15300.1	NT	Saccharomyces cerevisiae Hal5p (HAL5) mRNA, complete cds
6081	18860		0.73	2.0E-01	IM75987.1	NT	Human hepatocyte growth factor gene, exon 1
6192	18968	31943	0.79	2.0E-01	P02467	SWISSPROT	COLLAGEN ALPHA 2(I) CHAIN PRECURSOR

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6335	18105	32094	3.2	2.0E-01	X61033.1	NT	M. auratus mu class glutathione transferase gene
6435	18203	32200	4.02	2.0E-01	AW380865.1	EST_HUMAN	PM1-CT0247-141098-001-g06 CT0247 Homo sapiens cDNA
7104	18380	32554	1.28	2.0E-01	AF250371.1	NT	Mus musculus phosphofructokinase-1 C isozyme (PfkC) gene, exons 3 through 7
7345	20028	33102	0.88	2.0E-01	P54422	SWISSPROT	GAMMA-GLUTAMYL TRANSPEPTIDASE PRECURSOR
7676	20039	33492	0.84	2.0E-01	V00726.1	NT	Mouse germ line gene coding for beta-globin (Y2)
7853	20548	33925	5.8	2.0E-01	AF025028.1	NT	Ardes virus strain 021333 glycoprotein G1 and G2 precursor, gene, partial cds
8100	20764	33925	2.85	2.0E-01	X91151.1	NT	M. musculus sp2 gene exon 14
8024	21316	35103	0.96	2.0E-01	BE662247.1	EST_HUMAN	801344646-1 NH_MGC.8 Homo sapiens cDNA clone IMAGE:3677794 5'
9251	21620	35103	0.82	2.0E-01	U82511.1	NT	Dichytallium discobolus random slug cDNA10 protein (rec10) mRNA, partial cds
8290	21957	35129	0.88	2.0E-01	U71122.1	NT	Arabidopsis thaliana pyruvate decarboxylase-2 (Pdc2) gene, complete cds
9456	22006	35493	4.97	2.0E-01	AE001278.1	NT	Chlamydia trachomatis section 8 of 87 of the complete genome
9646	22268	35493	0.65	2.0E-01	P11420	SWISSPROT	DAUGHTERLESS PROTEIN
9646	22268	35494	0.65	2.0E-01	P11420	SWISSPROT	DAUGHTERLESS PROTEIN
9791	22442	35702	2.11	2.0E-01	AF140692.1	NT	Homo sapiens filamin 2 (FLN2) mRNA, complete cds
9641	22559	35703	1.08	2.0E-01	AF085007.1	NT	Arabidopsis thaliana root gravitropism control protein (PIN2) gene, complete cds
9641	22559	35703	1.08	2.0E-01	AF085007.1	NT	Arabidopsis thaliana root gravitropism control protein (PIN2) gene, complete cds
10067	22715	35933	0.88	2.0E-01	AF157814.1	NT	Homo sapiens cAMP specific phosphodiesterase (PDE4C) gene, exons 2 through 12
10067	22715	35934	0.88	2.0E-01	AF157814.1	NT	Homo sapiens cAMP specific phosphodiesterase (PDE4C) gene, exons 2 through 12
10114	22762	36167	0.89	2.0E-01	X78388.1	NT	D melanogaster DNA mobile element (hoppel)
10305	22852	36167	2.78	2.0E-01	X97121.1	NT	R. norvegicus mRNA for NTR2 receptor
10744	23431	36874	1.59	2.0E-01	D86088.1	NT	Salvinius pluvius mRNA for transferrin, complete cds
10744	23431	36874	1.59	2.0E-01	D86088.1	NT	Salvinius pluvius mRNA for transferrin, complete cds
11009	24207	37350	1.4	2.0E-01	7524759	NT	Chlorella vulgaris chloroplast, complete genome
11009	24207	37351	1.4	2.0E-01	7524759	NT	Chlorella vulgaris chloroplast, complete genome
12358	24762	37531	1.61	2.0E-01	AF206637.2	NT	Pimephales promelas liver glucose-6-phosphate-1-dehydrogenase mRNA, partial cds
12545	25210	38084	1.39	2.0E-01	AF302773.1	NT	Homo sapiens mRNase-L1 isoform (mRNase) mRNA, complete cds
12596	25139	38084	1.36	2.0E-01	AF302773.1	EST_HUMAN	EST1387405 MAQE resequences, MAGN Homo sapiens cDNA
12594	24950	38085	3.68	2.0E-01	A023592.1	EST_HUMAN	0680410.61 Soares, testis NHT Homo sapiens cDNA clone IMAGE:1643610 3'
12618	24924	38085	2.88	2.0E-01	AF078164.2	NT	Homo sapiens Ku70-binding protein (KUB3) mRNA, partial cds
12763	25014	38078	1.87	2.0E-01	11528468	NT	Mus musculus fructosebimane 3 kinase (Fbk3), mRNA
108	12929	38078	3.0	1.0E-01	7549743	NT	Rattus norvegicus Aryl hydrocarbon receptor nuclear translocator 1 (Ahr1), mRNA
342	13143	25781	6.86	1.0E-01	AF004353.1	NT	Mus musculus pale ear (ep) gene, wild type allele, 3' region, partial cds
641	13420	26058	1.43	1.0E-01	U32581.2	NT	Homo sapiens lamidolactone protein kinase C-interacting protein mRNA, complete cds
641	13420	26059	1.43	1.0E-01	U32581.2	NT	Homo sapiens lamidolactone protein kinase C-interacting protein mRNA, complete cds

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
648	13427	26068	5.97	1.9E-01	BE070801.1	EST_HUMAN	RC3-BT0502-251194-011-001 BT0502 Homo sapiens cDNA
649	13427	26068	8.46	1.9E-01	BE070801.1	EST_HUMAN	RC3-BT0502-251194-011-001 BT0502 Homo sapiens cDNA
965	13730		1.73	1.9E-01	7305180	NT	Mus musculus Interleukin 2 receptor, gamma chain (IL2rg), mRNA
1082	13940	26499	13.43	1.9E-01	AA335813.1	EST_HUMAN	EST18784 Fetal lung II Homo sapiens cDNA 5' end
1348	14097	26772	1.76	1.9E-01	AF061282.1	NT	Sorghum bicolor 22 kDa tailfin cluster
1414	14162		2.51	1.9E-01	AF184623.1	NT	Plasmodium vivax reticulocyte binding protein-2 (rip-2) gene, complete cds
2390	15102	27841	3.61	1.9E-01	8922533	NT	Homo sapiens hypodermal protein ELJ10581 (ELJ10581), mRNA
2923	15989	28353	3.43	1.9E-01	U66006.1	NT	Sigmodon hispidus p53 gene, partial cds
2939	15704		5.68	1.9E-01	J00922.1	NT	Cellus gallus ovalbumin (V) gene, complete cds
3002	15768	28417	0.95	1.9E-01	U25148.1	NT	Rattus norvegicus brush border myosin-I (BBMI) mRNA, partial cds
3300	16148	28603	4.26	1.9E-01	D13197.1	NT	Mouse gene for immunoglobulin diversity region D1
3473	16229	28883	4.44	1.9E-01	R19487.1	EST_HUMAN	Y42710.1 Soares fetal liver spleen TNF α Homo sapiens cDNA clone IMAGE:125547 5'
3819	18568	29199	1.33	1.9E-01	P35788	SWISSPROT	PAIR-RULE PROTEIN ODD-PAIRED
3973	18722	29350	3.15	1.9E-01	AB006784.1	NT	Schistosoma japonicum pomba DNA for cytoplasmic dynein heavy chain, complete cds
4063	18808	29438	1.28	1.9E-01	AW754106.1	EST_HUMAN	CM3-CT0315-271199-045-B11 CT0315 Homo sapiens cDNA
4206	18947	29573	1.09	1.9E-01	BE834043.1	EST_HUMAN	MR1-FN0010-290700-007-004 FN0010 Homo sapiens cDNA
4950	17877		1.05	1.9E-01	AF223842.1	NT	Rattus norvegicus chemokine receptor CXCR3 mRNA, complete cds
5517	18315		4.88	1.9E-01	AW130149.1	EST_HUMAN	X72807.x1 NCI CGAP - URI Homo sapiens cDNA clone IMAGE:2618444 3' similar to gb:M73779 RETINOIC ACID RECEPTOR ALPHA-1 (HUMAN).
5559	18355	31265	7.87	1.9E-01	AF127837.1	NT	Homo sapiens DNA polymerase epsilon catalytic subunit protein (POLE1) gene, exon 1a
5749	18541	31463	0.7	1.9E-01	AF061216.1	NT	Mus musculus Wrm protein (Wrm) gene, complete cds
5795	18586		2.56	1.9E-01	AU133116.1	EST_HUMAN	AU133116 NT2RP4 Homo sapiens cDNA clone NT2RP4011328 5'
6235	19009	31985	0.75	1.9E-01	A1782381.1	EST_HUMAN	wf4402.x1 NCI CGAP Co18 Homo sapiens cDNA clone IMAGE:239-058 3'
6294	19067	32050	1.03	1.9E-01	AW148452.1	EST_HUMAN	X14005.x1 NCI CGAP J068 Homo sapiens cDNA clone IMAGE:2618030 3' similar to gb:X03359 A1P SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (HUMAN);
6876	17952	30548	1.98	1.9E-01	R43212.1	EST_HUMAN	Y09412.x1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31863 3' similar to contains MIER13 repetitive element;
8900	19838	32652	0.86	1.9E-01	AF034620.1	NT	Homo sapiens tubby like protein 1 (TULP1) gene, exons 9-11
8900	19838	32653	0.86	1.9E-01	AF034620.1	NT	Homo sapiens tubby like protein 1 (TULP1) gene, exons 9-11
7180	19847	32917	0.82	1.9E-01	U73848.1	NT	Drosophila melanogaster heat-shock protein 70 (Hsp70) mRNA, complete cds
7391	20070	33149	1.38	1.9E-01	U08622.1	NT	Arabidopsis thaliana serine/threonine protein phosphatase type one (TOPP8) gene, complete cds
7436	20113	33201	3.11	1.9E-01	AF072724.1	NT	Zea mays starch branching enzyme 1 (sbe1) gene, complete cds
7885	20580	33709	1.48	1.9E-01	AL161587.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 57
8586	21278	34417	10.77	1.9E-01	AB033024.1	NT	Homo sapiens mRNA for KIAA1198 protein, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8944	21636	34681	1.24	1.9E-01	M14588.1	NT	Marupial cat beta-globin gene mRNA, partial cds
8944	21536	34682	1.24	1.9E-01	M14588.1	NT	Marupial cat beta-globin gene mRNA, partial cds
9775	22426	36632	0.61	1.9E-01	AA912486.1	EST_HUMAN	cd9g10.x1 NCI CGAP_PNS1 Homo sapiens cDNA clone IMAGE:1537506 3' similar to contains Alu repetitive element
10142	22780	36005	0.66	1.9E-01	BE830393.1	EST_HUMAN	RC5-ET0082-060700-022-A02 ET0082 Homo sapiens cDNA
10142	22790	36006	0.85	1.9E-01	BE830393.1	EST_HUMAN	RC5-ET0082-060700-022-A02 ET0082 Homo sapiens cDNA
10540	23237	36470	2.48	1.9E-01	AL161503.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 15
10540	23237	36471	2.48	1.9E-01	AL161503.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 16
10655	23346	36583	2.09	1.9E-01	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-40, and partial cds, alternatively spliced
10886	23661	36915	1.34	1.9E-01	AA912480.1	EST_HUMAN	cd902.x1 NCI CGAP_PNS1 Homo sapiens cDNA clone IMAGE:1537467 3' similar to gb:L21698_ods1
10886	23661	36916	1.34	1.9E-01	AA912480.1	EST_HUMAN	PROTHYMOSIN ALPHA (HUMAN) contains element ORF repetitive element
11487	24088	37399	1.53	1.9E-01	M22283.1	NT	cd902.x1 NCI CGAP_PNS1 Homo sapiens cDNA clone IMAGE:1537467 3' similar to gb:L21698_ods1
11726	24320	37845	2.77	1.9E-01	AL243213.1	NT	PROTHYMOSIN ALPHA (HUMAN) contains element ORF repetitive element
11762	24343	37673	1.6	1.9E-01	L07344.1	NT	Rattus norvegicus sodium channel 1 mRNA, complete cds
11847	24431	37772	1.3	1.9E-01	AF287293.1	NT	Influenza A/Guangdong/243/72 nucleoprotein (seg 5) gene, 5' end
12399	24785		1.87	1.9E-01	AF055900.1	NT	Mus musculus ATP-binding cassette 1, sub-family A, member 1 (Abca1) gene, complete cds
30	12958	25475	2.61	1.9E-01	U73200.1	NT	Drosophila melanogaster clathrin light chain mRNA, complete cds
253	15639	25700	0.9	1.9E-01	AB022060.1	NT	Mus musculus p18Rip mRNA, complete cds
						NT	Mus musculus Crag gene for chaperonin containing TCP-1 gamma subunit, partial cds
						NT	Homo sapiens calcium channel, voltage-dependent, beta 2 subunit (CACNB2) mRNA, and translated products
361	13159	25902	1.76	1.9E-01	4602532	NT	Cytosolic lipase gene for membrane guanylyl cyclase OGC1, complete cds
729	13503	26188	1.01	1.9E-01	AB021460.2	NT	wt17102.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2337061 3'
961	131726	26390	0.94	1.9E-01	AF1812212.1	EST_HUMAN	wt17102.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2337061 3'
1069	13828	26485	1.83	1.9E-01	AF000580.1	NT	Drosophila discoidium plasmid Ddp5, complete genome
1206	14015	26663	8.26	1.9E-01	AL117169.1	NT	Yersinia pestis plasmid PCO1
1462	14239	26825	1.97	1.9E-01	6753947	NT	Mus musculus guanylate nucleotide binding protein 1 (Gbp1), mRNA
1462	14239	26826	1.97	1.9E-01	6753947	NT	Mus musculus guanylate nucleotide binding protein 1 (Gbp1), mRNA
1839	14677		1.2	1.9E-01	4505036	NT	Homo sapiens latent transforming growth factor beta binding protein 4 (LTBP4) mRNA
1859	14697		1.88	1.9E-01	AI733708.1	EST_HUMAN	gg22410.x5 NCI CGAP_Q08 Homo sapiens cDNA clone IMAGE:1781811 3' similar to TR-075936 075936
						EST_HUMAN	GAMMA BUTYROBETAMINE HYDROXYLASE

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1908	14645	27355	1.75	1.8E-01	AB051897.1	NT	Mus musculus Scyl6, Scyl6-pa, Scyl6 genes for small inducible cytokine A9 precursor, small inducible cytokine A9 precursor, Scyl6 pseudogene, small inducible cytokine A5 precursor, complete cds
2697	15406		2.38	1.8E-01	AW895728.1	EST_HUMAN	QV3-DT0018-081298-036-g04 DT0018 Homo sapiens cDNA
2698	15065		1.98	1.8E-01	AF184598.1	NT	Junapadum aculeate LEAFY protein (LEAFY2) gene, partial cds
2904	15670	28319	1.29	1.8E-01	AW182300.1	EST_HUMAN	Y41403.x1 Soares NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:2659758.3
3121	15898	28528	1.78	1.8E-01	AW895178.1	EST_HUMAN	QV0-BN0041-070300-147-c04 BN0041 Homo sapiens cDNA
3810	16963	28005	0.88	1.8E-01	H03369.1	EST_HUMAN	Y45601.s1 Soares placenta NB2-IP Homo sapiens cDNA clone IMAGE:161704.3 similar to contains Alu repetitive element
3810	16963	28006	0.88	1.8E-01	H03369.1	EST_HUMAN	Y45601.s1 Soares placenta NB2-IP Homo sapiens cDNA clone IMAGE:161704.3 similar to contains Alu repetitive element
4299	17038		1.43	1.8E-01	D37954.1	NT	Bovine NB25 mRNA for MHC class II (Bcl.A-DQB), complete cds
4519	17254	28888	5.94	1.8E-01	AL161558.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 55
4721	17453	30087	2.0	1.8E-01	AB051897.1	NT	Mus musculus Scyl6, Scyl6-pa, Scyl6 genes for small inducible cytokine A9 precursor, small inducible cytokine A9 precursor, Scyl6 pseudogene, small inducible cytokine A5 precursor, complete cds
4754	17486	30114	0.94	1.8E-01	X62179.1	NT	S. tuberosum mRNA for alcohol dehydrogenase
4984	17707	30311	2.03	1.8E-01	AW814270.1	EST_HUMAN	MR3-ST0203-151298-112-g05 ST0203 Homo sapiens cDNA
4996	17722	30325	1.06	1.8E-01	AI782382.1	EST_HUMAN	ar2907.95 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700028.5
5035	17754	30367	4.88	1.8E-01	AF181258.1	NT	Mesocricetus auratus Na-taurocholate cotransporting polypeptide mRNA, partial cds
5718	18510	31431	0.82	1.8E-01	AL161594.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90
5835	18824	31558	0.88	1.8E-01	N28620.1	EST_HUMAN	Y42808.r1 Soares melanocyte 2N4HM Homo sapiens cDNA clone IMAGE:264063.5
6037	18817	31777	1.18	1.8E-01	6678428	NT	Mus musculus Trif receptor-associated factor 6 (Trif6), mRNA
6037	18817	31778	1.18	1.8E-01	6678428	NT	Mus musculus Trif receptor-associated factor 6 (Trif6), mRNA
8419	19187	32185	1.15	1.8E-01	Q9QY14	SWISSPROT	FORKHEAD BOX PROTEIN E3
8463	19230		2.08	1.8E-01	N94953.1	EST_HUMAN	Y52002.1 Soares multiple sclerosis 2N4HSP Homo sapiens cDNA clone IMAGE:278163.5
8806	19644	32889	1.18	1.8E-01	AB018591.1	NT	Citrus latifolia mRNA for virus, complete cds
8906	19644	32890	1.18	1.8E-01	AB018591.1	NT	Citrus latifolia mRNA for virus, complete cds
7346	20027	33103	0.7	1.8E-01	AF001611.1	NT	Bacillus halodurans genomic DNA, section 6/14
9242	21927	35091	1.23	1.8E-01	W73298.1	NT	Human cellular DNA/Human papillomavirus proviral DNA
9274	22028	35198	1.22	1.8E-01	9626232	NT	Bacteriophage like, complete genome
9391	22053		0.5	1.8E-01	AA469781.1	EST_HUMAN	rh0205.01 NC1_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943088 similar to contains L1.13 L1 repetitive element
9473	22126	35305	0.94	1.8E-01	P15272	SWISSPROT	AMP NUCLEOSIDASE

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9473	22126	35306	0.94	1.8E-01	P15272	SWISSPROT	AMP NUCLEOSIDASE
9514	22187	35348	0.91	1.8E-01	M26018.1	NT	S. commune orotidine-5'-phosphate decarboxylase (URA1) gene, complete cds
9514	22187	35349	0.91	1.8E-01	M26019.1	NT	S. commune orotidine-5'-phosphate decarboxylase (URA1) gene, complete cds
9678	22331	35528	0.75	1.8E-01	P08123	SWISSPROT	COLLAGEN ALPHA 2(I) CHAIN PRECURSOR
9683	22335	35530	0.77	1.8E-01	U07648.1	NT	Methanococcus jannaschii section 90 of 180 of the complete genome
10033	22681		0.78	1.8E-01	AF200252.1	NT	Aequorea ampullus cytochrome oxidase subunit (COI) gene, partial cds, mitochondrial gene for mitochondrial product
10288	22914	36124	1.48	1.8E-01	X63440.1	NT	M. musculus mRNA for P16-protein tyrosine phosphatase
10533	23230	36465	3.08	1.8E-01	X77336.1	NT	A. thaliana mRNA for ribonucleotide reductase R2
10577	23272	36508	7.28	1.8E-01	U38908.1	NT	Bacteriophage r11 integrase, repressor protein (ro), dUTPase, holin and lysin genes, complete cds
10637	19644	32689	2.61	1.8E-01	A9018501.1	NT	Citrus latifolius mRNA for wus, complete cds
10637	19644	32690	2.61	1.8E-01	A9018501.1	NT	Citrus latifolius mRNA for wus, complete cds
10638	23329	36507	5.89	1.8E-01	AF019107.1	NT	Dickcystallum discoidium unknown (DG1041) gene, complete cds
10942	23621	36670	2.64	1.8E-01	M59257.1	NT	Human carcinoembryonic antigen (CEA) gene, exon 4
11439	23206	36438	4.04	1.8E-01	X57033.1	NT	B. taurus mRNA for potassium channel
11787	24358	37681	3.45	1.8E-01	8394421	NT	Rattus norvegicus Thrombospondin receptor (Tbx27), mRNA
11907	24514		1.89	1.8E-01	10080501	NT	Bovine ephemeral fever virus, complete genome
12026	24553	31111	2.04	1.8E-01	BF348623.1	EST_HUMAN	602019628F1 NCJ CGAP Bm67 Homo sapiens cDNA clone IMAGE4156318 5'
12476	24639		3.28	1.8E-01	Q36882	SWISSPROT	DNA TERMINAL PROTEIN (BELLETT PROTEIN) (PTP PROTEIN)
12598	24908		1.91	1.8E-01	R24494.1	EST_HUMAN	YH4810.J1 Soares placenta Nb2F-P Homo sapiens cDNA clone IMAGE:133027 5'
12628	24931		2.3	1.8E-01	Y11114.1	EST_HUMAN	E. dispar mRNA for hexokinase (hsk1)
12746	25324		1.61	1.8E-01	X10635.1	NT	Rattus norvegicus Cdc42pK gene
563	13345	25672	1.57	1.7E-01	BE386104.1	EST_HUMAN	601274904F1 NIH_MGC_30 Homo sapiens cDNA clone IMAGE:3615768 5'
787	13559	26221	2.32	1.7E-01	X53330.1	NT	P. dumerilii histone gene cluster for core Histones H2A, H2B, H3 and H4
941	13708		2.21	1.7E-01	P35916	SWISSPROT	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NFL)
1036	13796	26455	1.89	1.7E-01	AF081810.1	NT	Lymnaea dispar nucleocytochrome, complete genome
1036	13796	26456	1.89	1.7E-01	AF081810.1	NT	Lymnaea dispar nucleocytochrome, complete genome
1074	14710		2.6	1.7E-01	AF255051.1	NT	Homo sapiens BNIP3H (BNIP3H) gene, complete cds, nuclear gene for mitochondrial product
2863	15631	28275	2.29	1.7E-01	AF000716.1	NT	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hprt) gene, partial cds, hemagglutinin/protease regulatory protein (hprt) gene, complete cds, and VRAL VIBCO gene, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2963	15931	29276	2.29	1.7E-01	AF00718.1	NT	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial cds, hemagglutinin/protease regulatory protein (hpr) gene, complete cds, and YRAL VIBCO gene, partial cds
2927	15933	29338	1.55	1.7E-01	A439809.1	EST_HUMAN	EST141051 Endometrial tumor Homo sapiens cDNA 5' end
2988	15781	28409	1.33	1.7E-01	AJ238736.1	NT	Naja naja atra cdc-1 gene, exons 1-3
2995	15781	28410	1.33	1.7E-01	AJ238736.1	NT	Naja naja atra cdc-1 gene, exons 1-3
3103	15898	28508	1.24	1.7E-01	AF081514.1	NT	Taoua carolinensis geranylgeranyl diphosphate synthase mRNA, complete cds
3439	16195	28845	1.74	1.7E-01	AJ289505.1	NT	Anabaena sp. ORF4 (partial), ORF3, ORF2, ORF1, adpA gene, adpB gene, adpC gene, adpD gene, adpE gene and adpF gene
3565	16348	29080	1.04	1.7E-01	AJ224977.1	NT	Homo sapiens hsp1 gene, complete cds
3616	16399		0.92	1.7E-01	5031888	NT	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA
3918	16998	29306	4.84	1.7E-01	AJ235377.1	NT	Homo sapiens derivative 11 breakpoint fragment, partial intron 10 of the ALL-1/MLL/HRX gene fused to intron 5 of the AF-4/TEL gene
4522	17257		1.09	1.7E-01	X52936.1	NT	Schistosoma japonicum alpha repetitive DNA
4787	17518	30140	1.06	1.7E-01	AJ247635.1	EST_HUMAN	qf57e09.x1 Soares, fetal liver spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:1848803 3' similar to contains ORF1b1 OFR repetitive element;
5054	17773		1.11	1.7E-01	AF072725.1	NT	Zea mays starch branching enzyme IIb (se) gene, complete cds
5122	17840	30456	0.75	1.7E-01	D37951.1	NT	Rattus norvegicus mRNA for MBP1 (c-myc intron binding protein 1), complete cds
5323	18128	30785	2	1.7E-01	AA470886.1	EST_HUMAN	nc13a02.s1 NCL CGAP_C03 Homo sapiens cDNA clone IMAGE:581060 3' similar to gb:U17866 50S
5323	18128	30786	2	1.7E-01	AA470886.1	EST_HUMAN	nc13a02.s1 NCL CGAP_C03 Homo sapiens cDNA clone IMAGE:581060 3' similar to gb:U17866 50S
5508	18304	31205	0.62	1.7E-01	U43599.1	NT	ADIC RIBOSOMAL PROTEIN P1 (HUMAN);
6237	19011	31986	13.23	1.7E-01	HT2118.1	EST_HUMAN	Brugia pahangi microfilarial sheath protein SHP3 (shp3) gene, complete cds
6293	19098	32048	0.97	1.7E-01	AJ370078.1	EST_HUMAN	y402g06.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:213658 3'
6293	19098	32049	0.97	1.7E-01	AJ370078.1	EST_HUMAN	ta23c11.x1 Soares, fetal lung, NHL19W Homo sapiens cDNA clone IMAGE:2045492 3'
6753	19222	30557	0.65	1.7E-01	BE300286.1	EST_HUMAN	ta23c11.x1 Soares, fetal lung, NHL19W Homo sapiens cDNA clone IMAGE:2045492 3'
6780	19524		2.28	1.7E-01	AF028652.3	NT	Meoconitine aureate oxidolactin precursor (OV1) gene, complete cds
6902	19640		0.89	1.7E-01	Z92810.1	NT	Homo sapiens HFE gene
7120	19808	32874	1.1	1.7E-01	AF000422.1	NT	Escherichia coli O157:H7 genomic DNA, Sakai-VT2 prophage inserted region
7197	19883	32857	8.8	1.7E-01	BE734176.1	EST_HUMAN	nc159022F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3943964 5'
7390	20080	33136	1.37	1.7E-01	P16724	SWISSPROT	PROBABLE PROCESSING AND TRANSPORT PROTEIN UL56 (HFLF0 PROTEIN)
7398	25112	33153	0.71	1.7E-01	Q01965	SWISSPROT	COLLAGEN ALPHA 3(V) CHAIN PRECURSOR
7760	20456	33590	1.32	1.7E-01	AF000573.1	NT	Homo sapiens homodimerase 1, 2-dioxygenase gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7863	20558	33684	0.62	1.7E-01	AF150890.1	NT	Pseudomonas putida long-chain-fatty-acid-CoA ligase (fadD) gene, complete cds
8175	20898	34001	6.19	1.7E-01	7706428	NT	Homo sapiens cleavage and polyadenylation specificity factor 3, 73kD subunit (CPSF3), mRNA
8175	20898	34002	6.19	1.7E-01	7706428	NT	Homo sapiens cleavage and polyadenylation specificity factor 3, 73kD subunit (CPSF3), mRNA
8598	21290	34431	0.47	1.7E-01	AW92873.1	EST_HUMAN	RC3-BN0032:120200-011-410 BN0032 Homo sapiens cDNA
8628	21320	34462	2.09	1.7E-01	D00384.1	NT	Rat (SHR strain) SXT gene
8743	21435	34580	0.75	1.7E-01	AF217413.1	NT	Homo sapiens neuroigin 3 isoform gene, complete cds, alternatively spliced
8743	21435	34581	0.75	1.7E-01	AF217413.1	NT	Homo sapiens neuroigin 3 isoform gene, complete cds, alternatively spliced
9068	21765	34916	0.48	1.7E-01	BE283142.1	EST_HUMAN	601110872F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3357184 5'
9068	21765	34917	0.48	1.7E-01	BE283142.1	EST_HUMAN	601110872F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3357184 5'
9490	22143	35323	7.85	1.7E-01	AP001508.1	NT	Bacillus halodurans genomic DNA, section 2/14
9587	22250	35435	0.51	1.7E-01	AW877455.1	EST_HUMAN	EST339564 MAGE resequences, MAGE Homo sapiens cDNA
9597	22250	35436	0.51	1.7E-01	AW877455.1	EST_HUMAN	EST339564 MAGE resequences, MAGE Homo sapiens cDNA
9615	22268	35455	3.14	1.7E-01	U16288.1	NT	Human class IV alcohol dehydrogenase (ADH7) gene, exon 3
9708	22339	35555	0.63	1.7E-01	AJ251740.1	NT	Drosophila melanogaster mRNA for serine protease inhibitor (serpin-6), (sp6 gene)
10133	22781		2.4	1.7E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
10293	22940	36154		1.4	11427203	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 2 (SLC7A2), mRNA
10295	22942	36155	1.72	1.7E-01	AA827972.1	EST_HUMAN	nc80e07 s1 NCI_CGAP CGP Homo sapiens cDNA clone IMAGE:1148282 3' similar to gi:125081
10501	23147		0.45	1.7E-01	AL161542.2	NT	TRANSFORMING PROTEIN RHOC (HUMAN);
10579	23274	36511	8.78	1.7E-01	BE390835.1	EST_HUMAN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 42
10709	23398	36937	2.65	1.7E-01	AA814617.1	EST_HUMAN	601289547F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613258 5'
11055	23725	36985	9.13	1.7E-01	7106300	NT	c43a03 s1 NCI_CGAP CGS1 Homo sapiens cDNA clone IMAGE:1426924 3'
11065	23725	36986	9.13	1.7E-01	7106300	NT	Mus musculus adrenomedullary polypeptide col binding protein E51 (E51), mRNA
11146	23813	37098	1.62	1.7E-01	Y08391.1	NT	Mus musculus adrenomedullary polypeptide col binding protein E51 (E51), mRNA
11348	24038	37341	1.08	1.7E-01	AA883375.1	EST_HUMAN	S.pombe pop1+ gene
11712	24307		1.83	1.7E-01	P16272	SWISSPROT	#4590 s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460297 3'
11746	24337	37663	1.62	1.7E-01	P55899	SWISSPROT	AMP NUCLEOSIDASE
11746	24337	37664	1.62	1.7E-01	P55899	SWISSPROT	IGG RECEPTOR FORN LARGE SUBUNIT P51 PRECURSOR (FORN) (NEONATAL FC RECEPTOR)
11874	24453	37699	2.62	1.7E-01	11418157	NT	IGG RECEPTOR FORN LARGE SUBUNIT P51 PRECURSOR (FORN) (NEONATAL FC RECEPTOR)
12000	25320		1.95	1.7E-01	AL163278.2	NT	(IGG FC FRAGMENT RECEPTOR TRANSPORTER, ALPHA CHAIN)
							Homo sapiens calcium channel, voltage-dependent, alpha 1 subunit (CACNA1I), mRNA
							Homo sapiens chromosome 21 segment HS21C078

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12288	25167		1.05	1.7E-01	AB24404.1	EST_HUMAN	688905.1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:2274872 3' similar to gb:M73779 RETINOIC
12562	24898	30996	16.27	1.7E-01	U01317.1	NT	ACID RECEPTOR ALPHA-1 (HUMAN); Human beta globin region on chromosome 11
122	12940	25582	2.38	1.8E-01	AF217532.1	NT	Homo sapiens melanotransferrin kinase gene, exon 6 and 7
604	13518	29081	1.51	1.8E-01	R31497.1	EST_HUMAN	Y17812.1 Soares placenta NB2HP Homo sapiens cDNA clone IMAGE:135569 5'
1483	14240	29927	1.16	1.8E-01	AA548853.1	EST_HUMAN	nk28412.1 NCL CGAP_C011 Homo sapiens cDNA clone IMAGE:1014839 3'
1612	14258	28944	3.62	1.8E-01	AF298117.1	NT	Homo sapiens homeobox protein OTX2 gene, complete cds
1917	14654	27394	1.88	1.8E-01	P22063	SWISSPROT	AXONIN-1 PRECURSOR (AXONAL GLYCOPROTEIN TAG-1)
1977	14713		1.51	1.8E-01	U10334.1	NT	Crassostrea gigas RNA polymerase II largest subunit mRNA, partial cds
2383	15593	27844	1.35	1.8E-01	X94232.1	NT	H. sapiens mRNA for novel T-cell activation protein
2497	15214	27957	1.4	1.8E-01	AB037729.1	NT	Homo sapiens mRNA for KIAA1308 protein, partial cds
2894	15661	28307	10.17	1.8E-01	AF185590.1	NT	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region
2894	15661	28308	10.17	1.8E-01	AF185598.1	NT	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region
3824	16377	29018	1.21	1.8E-01	AJ003105.1	NT	Populus trichocarpa cv. Trichobal AB13 gene
3824	16377	29019	1.21	1.8E-01	AJ003105.1	NT	Populus trichocarpa cv. Trichobal AB13 gene
3982	16730		2.49	1.8E-01	AE004413.1	NT	Vibrio cholerae chromosome II, section 70 of 83 of the complete chromosome
4284	17033	29981	9.42	1.8E-01	AF179880.1	NT	Homo sapiens apelin gene, complete cds
4423	17159		3.07	1.8E-01	AW068801.1	EST_HUMAN	EST380577 IMAGE:ressequences, MAGU Homo sapiens cDNA
4431	17167		4.35	1.8E-01	6783319	NT	Mus musculus chaperonin subunit 3 (gamma) (C38), mRNA
4866	17698	30219	0.7	1.8E-01	P40631	SWISSPROT	MICRONUCLEAR LINKER HISTONE POLYPEPTIDE (MIC LH) CONTAINS: LINKER HISTONE
4862	17619	30237	1.38	1.8E-01	AA068343.1	EST_HUMAN	PROTEINS ALPHA, BETA, DELTA AND GAMMA
4811	17639	30253	1.54	1.8E-01	AJ006396.1	NT	284-HQ.11 Stragene codon (8637204) Homo sapiens cDNA clone IMAGE:511381 3' similar to TR:E221965
4911	17639	30254	1.54	1.8E-01	AJ006396.1	NT	E221965 38,855 BP SEGMENT OF CHROMOSOME XIV.; Lycopodium obscurum Real fragment 2, satellite region
5303	18108	30788	0.99	1.8E-01	L40608.1	NT	Lycopodium obscurum Real fragment 2, satellite region
5435	18234	30947	2.95	1.8E-01	AW197496.1	EST_HUMAN	Plasmodium falciparum (strain Dd2) variant-specific surface protein (var-1) gene, complete cds
5435	18234	30948	2.95	1.8E-01	AW197496.1	EST_HUMAN	YPOTHEICAL 127.6 KD PROTEIN ; Xm43901.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2689989 3' similar to TR:075984 075984
5447	18246	31134	2.15	1.8E-01	AF034716.1	NT	HYPOHETICAL 127.6 KD PROTEIN ; Xm43901.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2689989 3' similar to TR:075984 075984
5938	18120	31679	0.83	1.8E-01	BE025803.1	EST_HUMAN	Rattus norvegicus CCAAT/enhancer binding protein epsilon (cabe) gene, complete cds
6162	18939	31909	0.71	1.8E-01	BF183584.1	EST_HUMAN	RC3-BN0034-310800-113-101 BN0034 Homo sapiens cDNA
6162	18939	31910	0.71	1.8E-01	BF183584.1	EST_HUMAN	601809725R1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040335 3'
6162	18939	31910	0.71	1.8E-01	BF183584.1	EST_HUMAN	801809725R1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040335 3'

Page 100 of 538
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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6334	19104	32092	2.37	1.0E-01	AL161588.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 84
6334	19104	32093	2.37	1.0E-01	AL161588.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 84
6885	19802	32641	0.55	1.0E-01	AA398047.1	EST_HUMAN	z890d04.r1 Scores: testis: NHT Homo sapiens cDNA clone IMAGE:728511 5'
6887	17044	30539	5.32	1.0E-01	AW281215.1	EST_HUMAN	U1-H1B2-apt-b-06-Q1J1.s1 NCL CGAP Sub4 Homo sapiens cDNA clone IMAGE:2724418 3'
7076	20340	33453	1.06	1.0E-01	AW246039.1	EST_HUMAN	2822248.Sprine NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822248 5'
7703	20366	32036	0.74	1.0E-01	AU195525.1	EST_HUMAN	U195525 PLACE1 Homo sapiens cDNA clone PLACE1004468 5'
7768	20464	33589	1.81	1.0E-01	L48349.1	NT	Gonila gonila endogen receptor gene, partial exon
7924	20619		0.51	1.0E-01	BE244087.1	EST_HUMAN	TGAP1E0607 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCEA Homo sapiens cDNA clone TC8AP0607
8018	20713	33844	0.87	1.0E-01	U38243.1	NT	Bacteroides vulgatus beta-lactamase (cfa) gene, complete cds and mobilization protein (mobA) gene, complete cds
8330	21222	34384	0.88	1.0E-01	Z59118.1	NT	Bacillus subtilis complete genome (section 16 of 21), from 2687771 to 3213410
8725	21417	34581	0.63	1.0E-01	R13673.1	EST_HUMAN	y80h08.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:28873 5'
8831	21523		0.58	1.0E-01	L38861.1	NT	Homo sapiens guanylate cyclase activating protein (GCAP) gene exons 1-4, complete cds
8870	21561	34706	1.72	1.0E-01	Z49501.1	NT	S.cerevisiae chromosome X reading frame ORF YJR001W
9009	21689		0.83	1.0E-01	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfas gene, complete cds; and unknown gene
9551	22204		2.09	1.0E-01	BF37571.1	EST_HUMAN	RC3-ST0200-041189-011-H01 ST0200 Homo sapiens cDNA
9554	22207	35391	1.7	1.0E-01	Z49501.1	NT	S.cerevisiae chromosome X reading frame ORF YJR001W
9589	22242		0.87	1.0E-01	BE165884.1	EST_HUMAN	PM2-HT0363-270100-004-F11 HT0363 Homo sapiens cDNA
10553	23249	39488	3.3	1.0E-01	AW890853.1	EST_HUMAN	IL3-CT0220-111189-028-G01 CT0220 Homo sapiens cDNA
10918	23598	38846	1.59	1.0E-01	O14647	SWISSPROT	CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 2 (CHD-2)
10918	23598	38846	1.59	1.0E-01	O14647	SWISSPROT	CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 2 (CHD-2)
10923	23603	39852	1.55	1.0E-01	BE286049.1	EST_HUMAN	PM1145793F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3181183 5'
11069	23729		4.28	1.0E-01	AF100064.1	NT	Plasmidium falciparum calcium-dependent protein kinase-3 (cdpk3) gene, complete cds
11388	23994	37298	7.26	1.0E-01	6871552	NT	Mus musculus selector-related protein complex AP-1, beta 1 subunit (Ap1b1), mRNA
11708	24301		1.26	1.0E-01	BF527237.1	EST_HUMAN	602038465F2 NCL CGAP Brn7 Homo sapiens cDNA clone IMAGE:4177073 5'
11886	25331		1.84	1.0E-01	6879468	NT	Mus musculus protein kinase, cAMP-dependent, type II (Prkg2), mRNA
12002	24538	37273	5.28	1.0E-01	AV710585.1	EST_HUMAN	AV710585 GLC Homo sapiens cDNA clone GLCEMF07 5'
12292	24721	31052	1.72	1.0E-01	L14633.1	NT	Rat convertase PDS mRNA, 5' end
12321	24740		1.5	1.0E-01	AW839711.1	EST_HUMAN	RC1-LT0074-120200-014-H01.L1 LT0074 Homo sapiens cDNA
12418	25149		287.78	1.0E-01	AB046310.1	NT	Cucumis sativus KS mRNA for anti-tauroine synthase, complete cds
12574	24901		2.4	1.0E-01	AK024486.1	NT	Homo sapiens mRNA for FLJ00104 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12861	24981		1.72	1.6E-01	AF287344.1	NT	Fuchsi hybrid cultivar Qlu 94208 ribosomal protein S10 gene, partial cds; nuclear gene for mitochondrial product
12867	24973	30902	1.7	1.6E-01	6006622	NT	Rattus norvegicus chondrial sulfite proteoglycan 5 (neuroglycan G) (Capp6), mRNA
12708	25046		1.52	1.6E-01	BF072886.1	EST_HUMAN	002152004F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293145 5'
241	13050	25089	1.4	1.6E-01	BE710087.1	EST_HUMAN	IL3-HT0619-0407005-197-E05 HT0619 Homo sapiens cDNA
241	13050	25090	1.4	1.6E-01	BE710087.1	EST_HUMAN	IL3-HT0619-0407005-197-E05 HT0619 Homo sapiens cDNA
673	16517		8.31	1.6E-01	AV711688.1	EST_HUMAN	AV711688 DGA Homo sapiens cDNA clone DCAADH06 5'
798	13539	28188	1.09	1.6E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1070	13828	28487	1.01	1.6E-01	AJ009735.1	NT	Cyprinus carpio mRNA for EGG522 myosin heavy chain, 3'UTR
1075	13833	28491	2.75	1.6E-01	AJ051885.1	NT	Homo sapiens partial SLC22A2 gene for organic cation transporter (OCT2), exon 1
1091	13849		1.42	1.6E-01	L36126.1	NT	Rattus norvegicus insulin-responsive glucose transporter (GLUT4) gene, 5' end
1194	13948	28610	0.82	1.6E-01	AW195516.1	EST_HUMAN	3038211.1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2869085 3'
1252	14001	28689	2.86	1.6E-01	D28535.1	NT	Human gene for dihydropyrimidine dehydrogenase, complete cds (exon 1-16)
1252	14001	28689	2.96	1.6E-01	D28535.1	NT	Human gene for dihydropyrimidine dehydrogenase, complete cds (exon 1-16)
1496	14212	28901	1.86	1.6E-01	AF117340.1	NT	Mus musculus MAP kinase kinase 1 (Meik1) mRNA, complete cds
1901	14638	27347	1	1.6E-01	AW444451.1	EST_HUMAN	UI-HB3-46b-3-06-0-U1a1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733041 3'
2716	15423	28182	1.88	1.6E-01	BF063031.1	EST_HUMAN	002083266F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4247837 5'
2914	15690		1.16	1.6E-01	AW672616.1	EST_HUMAN	3038211.1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2831978 3' similar to gb:X55072_mn1
3048	15914	28459	0.74	1.6E-01	O78887	SWISSPROT	THYROID HORMONE RECEPTOR ALPHA-1 (HUMAN);
3347	16106	28761	5.06	1.6E-01	AA93049.1	EST_HUMAN	NAOH-UBIQUINONE OXIDOREDUCTASE CHAIN 4
3361	16120	28777	0.82	1.6E-01	Z23104.1	NT	cc89305.1 NCI_CGAP_GG4 Homo sapiens cDNA clone IMAGE:1671337 3' similar to gb:M11433
3361	16120	28778	0.82	1.6E-01	Z23104.1	NT	RETINOL-BINDING PROTEIN 1, CELLULAR (HUMAN);
						NT	L. signata mRNA for G protein-coupled receptor
						NT	L. signata mRNA for G protein-coupled receptor
3738	16481	28126	2.11	1.6E-01	U06984.1	NT	Mus musculus CYP3A4/3A5 glyceroldehyde 3-phosphate dehydrogenase (Gpd-S) gene, complete cds
3752	16604	28140	0.74	1.6E-01	7108358	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 1 (PDK1), nuclear gene encoding mitochondrial protein, mRNA
3848	16599	28236	2.65	1.6E-01	AW065983.1	EST_HUMAN	h10063.1 Source_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2861411 3'
4028	18073	28405	1.1	1.6E-01	AW396669.1	EST_HUMAN	RC3-HT0149-011099-012-009 HT0149 Homo sapiens cDNA
4161	16901	28530	8.35	1.6E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4878	17410	30046	1.57	1.6E-01	BF087665.1	EST_HUMAN	602067102F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4066223 5'
4703	15423	28182	1.82	1.6E-01	BF063031.1	EST_HUMAN	002083266F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4247837 5'
5132	17850	30467	1.55	1.6E-01	Z72608.1	NT	S. cerevisiae chromosome VII reading frame ORF YGL089w

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5145	17864	30480	1.05	1.5E-01	AF068313.1	NT	Morone saxatilis gonadotropin-releasing hormone type II gene, complete cds
5175	17904	30489	2.16	1.5E-01	P07986	SWISSPROT	THROMBOSPONDIN 1 PRECURSOR
5203	18011	30632	1.15	1.5E-01	AF296932.1	NT	Callinectes croceus MHC class II beta chain (hclbeta) gene, complete cds
5245	18051		6.82	1.5E-01	P15166	SWISSPROT	SEX HORMONE-BINDING GLOBULIN PRECURSOR (SHBG) (SEX STEROID-BINDING PROTEIN) (ABP)
5451	18250	31139	5.08	1.5E-01	AW850754.1	EST_HUMAN	L3-CT0219-160200-064-F10 CT0219 Homo sapiens cDNA
5492	18291	31183	8.42	1.5E-01	U65016.1	NT	Mus musculus transforming growth factor alpha (TGFA) mRNA, complete cds
5492	18291	31189	8.42	1.5E-01	U65016.1	NT	Mus musculus transforming growth factor alpha (TGFA) mRNA, complete cds
5915	18700	31653	3.09	1.5E-01	6753659	NT	Mus musculus DNA methyltransferase 2 (Dnmt2), mRNA
5915	18700	31654	3.09	1.5E-01	6753659	NT	Mus musculus DNA methyltransferase 2 (Dnmt2), mRNA
5952	18734	31663	1.93	1.5E-01	AJ278505.1	NT	Mus musculus genomic fragment, 278 Kb, chromosome 7
6102	18880	31847	3.1	1.5E-01	BE727658.1	EST_HUMAN	601564322F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3833981 5'
6162	18828		1.77	1.5E-01	4506338	NT	Homo sapiens RAD64 (S.cerevisiae) like (RAD64), mRNA
6281	18028	31899	2.09	1.5E-01	AF134907.1	NT	Influenza B virus (BAN/Chang/480/p4) NS protein gene, complete cds; and neuraminidase gene, partial cds
6409	25089	32176	2.21	1.5E-01	AE001039.1	NT	Archaeoglobus fulgidus section 88 of 172 of the complete genome
6437	19205	32201	4.89	1.5E-01	11417236	NT	Homo sapiens chromosome 5 open reading frame 3 (OSORF3), mRNA
6448	19216	32214	1.95	1.5E-01	P49508	SWISSPROT	GLUTAMATE-CYSTEINE LIGASE REGULATORY SUBUNIT (GAMMA-GLUTAMYL-CYSTEINE SYNTHETASE) (GAMMA-ECS) (GCS LIGHT CHAIN)
6493	19259	32280	2.35	1.5E-01	Q28462	SWISSPROT	AMELOGENIN
6585	19348	32361	1.26	1.5E-01	AA714760.1	EST_HUMAN	hm30410.s1 NCI CGAP GC80 Homo sapiens cDNA clone IMAGE:1241671 3'
6612	19375	32389	1.66	1.5E-01	P30143	SWISSPROT	HYPOTHETICAL 51.7 KD PROTEIN IN THRC-TALB INTERGENIC REGION (ORF8)
6682	17658	30554	6.82	1.5E-01	AW970295.1	EST_HUMAN	EST382376 IMAGE:382376 Homo sapiens cDNA
6918	25102		0.79	1.5E-01	AA811545.1	EST_HUMAN	067302.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1337019 3' similar to contains element LTR2 repetitive element
7115	18903		2.07	1.5E-01	AF210842.1	NT	Homo sapiens HARP (HARP) gene, exon 17 and complete cds
7280	18973	33051	2.96	1.5E-01	AF73157.1	EST_HUMAN	wr2308.xt NCI CGAP UTI Homo sapiens cDNA clone IMAGE:2491310 3'
7480	20162	33254	2.04	1.5E-01	AF290073.1	NT	Bos taurus Niemann-Pick type C1 disease protein (NPC1) mRNA, complete cds
7490	20162	33256	2.04	1.5E-01	AF290073.1	NT	Bos taurus Niemann-Pick type C1 disease protein (NPC1) mRNA, complete cds
7499	20171	33282	2.04	1.5E-01	AW500611.1	EST_HUMAN	UHF-BNO-alk-d-06-0-ULIT NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077409 5'
7499	20171	33283	2.04	1.5E-01	AW500611.1	EST_HUMAN	UHF-BNO-alk-d-06-0-ULIT NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077409 5'
7640	20306	33414	0.81	1.5E-01	U46580.1	NT	Saccharomyces cerevisiae weak multifactorial suppressor of <i>les-1</i> (SOL3) gene, complete cds
7657	20652	33775	0.96	1.5E-01	P21303	SWISSPROT	MEROZOITE RECEPTOR PK68 PRECURSOR (68 KD PROTECTIVE MINOR SURFACE ANTIGEN)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8118	20812	39847	1.13	1.9E-01	AA970317.1	EST_HUMAN	cd85g12.a1 NCI_CGAP_K145 Homo sapiens cDNA clone IMAGE:1573030 3' similar to gb:M20062
8211	20005		0.95	1.9E-01	BE884700.1	EST_HUMAN	INTERLEUKIN-2 RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
8289	20083		11.54	1.9E-01	C16900.1	EST_HUMAN	601510523F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912004 5'
8332	21025	34102	1.6	1.9E-01	L27833.1	NT	G16800 Clontech human scd4 polyA+ mRNA (#6572) Homo sapiens cDNA clone GEN-528H09 5'
8491	21183	34325	1.05	1.9E-01	D64476.1	NT	Pargastatone induces growth hormone (GH) mRNA, complete cds
8512	21204		0.71	1.9E-01	P43446	SWISSPROT	Homo sapiens mRNA for ASK1, complete cds
8737	21429	34575	1.10	1.9E-01	4501972	NT	WNT-10A PROTEIN PRECURSOR
							Homo sapiens adaptor-related protein complex 1, beta 1 subunit (ADTB1), mRNA
9002	21602	34842	2.88	1.9E-01	N74226.1	EST_HUMAN	z559e06.a1 Scores field liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:296898 3' similar to
9082	21781	34945	1	1.9E-01	BF585465.1	EST_HUMAN	PIR-S44443 S44443 RAD23 protein homolog2 - human ;
9100	21788		2.3	1.9E-01	AV754819.1	EST_HUMAN	GVO000404 Human Paracelsus Differential Display/ Homo sapiens cDNA
9305	21972		0.74	1.9E-01	AU130007.1	EST_HUMAN	AV754819 TP Homo sapiens cDNA clone TPAAHB12 5'
9353	20424	39543	7.32	1.9E-01	U00455.1	NT	ALU130007 NT2RP3 Homo sapiens cDNA clone NT2RP3000080 5'
							Aspenser transmembrane vitellin mRNA, partial cds
9717	22368	35598	0.53	1.9E-01	M77144.1	NT	Human type II 3-beta hydroxysteroid dehydrogenase 5-delta - 4-delta isomerase gene, complete cds
9821	22472	35674	7.51	1.9E-01	AF007570.1	NT	Aplysia californica carboxypeptidase D mRNA, complete cds
9821	22472	35676	7.51	1.9E-01	AF007570.1	NT	Aplysia californica carboxypeptidase D mRNA, complete cds
10103	22751	35685	2.92	1.9E-01	X68852.1	NT	P. leuckii mRNA for integrin beta subunit
10207	22855	36070	2.16	1.9E-01	A1814046.1	EST_HUMAN	w453h12.x1 NCI_CGAP_P221 Homo sapiens cDNA clone IMAGE:2418175 3' similar to gb:M27508 BETA
							GALACTOSIDASE-RELATED PROTEIN PRECURSOR (HUMAN);
							w453h12.x1 NCI_CGAP_P222 Homo sapiens cDNA clone IMAGE:2419175 3' similar to gb:M27508 BETA
							GALACTOSIDASE-RELATED PROTEIN PRECURSOR (HUMAN);
10207	22855	36071	2.16	1.9E-01	A1814046.1	EST_HUMAN	Darbo natio transcription factor Pcd8b (Pcd8) mRNA, complete cds
10285	22855	36148	2.01	1.9E-01	U06832.1	NT	Claviceps purpurea pat1 gene
10438	23084	36311	1.43	1.9E-01	AJ011094.1	NT	Claviceps purpurea pat1 gene
10438	23084	36312	1.43	1.9E-01	AJ011094.1	NT	Claviceps purpurea pat1 gene
10595	23289	36526	1.82	1.9E-01	BE088402.1	EST_HUMAN	CMD-BT0888-210300-122-41 BT0888 Homo sapiens cDNA
10695	23289	36527	1.82	1.9E-01	BE088402.1	EST_HUMAN	CMD-BT0888-210300-122-41 BT0888 Homo sapiens cDNA
10728	23414	36654	7.31	1.9E-01	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
10728	23414	36655	7.31	1.9E-01	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
10898	23576		1.7	1.9E-01	AB042973.1	NT	Sua scrofa CYP51 gene for lanosterol 14 alpha-demethylase, exon 1
11012	23684	36944	1.6	1.9E-01	AW841915.1	EST_HUMAN	IL5-CN0024-030300-025-D04 CN0024 Homo sapiens cDNA
							z46802.r1 Scores field fetus_Nh2IFB_9v Homo sapiens cDNA clone IMAGE:773091 5' similar to
11057	23727	36999	1.95	1.9E-01	AA425488.1	EST_HUMAN	z46802.r1 Scores element MER22 repetitive element ;

Page 104 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11119	19973	33051	1.58	1.5E-01	AI073157.1	EST_HUMAN	wf52d08.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2491310 3'
11625	24222		1.66	1.5E-01	AI193704.1	EST_HUMAN	qet2d01.x1 Scores_fetal_jung_NHL19W Homo sapiens cDNA clone IMAGE:1744536 3' similar to gbM17887 eos ACIDIC RIBOSOMAL PROTEIN P2 (HUMAN);
11869	25202		11.07	1.5E-01	BF700682.1	EST_HUMAN	602128753.F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:4285549 5'
12320	24739		1.37	1.5E-01	AF030358.2	NT	Rattus norvegicus chemokine CX3C mRNA, complete cds
12324	24743		1.77	1.5E-01	AJ238332.1	NT	Mus musculus mRNA for death inducer-chillerator-1 (Dio-1)
12369	24771		5.35	1.5E-01	AB028698.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12385	25220		9.97	1.5E-01	R83077.1	EST_HUMAN	yc87d04.f1 Scores fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:194430 5'
12472	25241		2.53	1.5E-01	AI741272.1	EST_HUMAN	AV741272 CB Homo sapiens cDNA clone CBDA0004 5'
12573	25150	30887	9.2	1.5E-01	AL138074.2	NT	Campylobacter jejuni NCTC11168 complete genome; segment 1/8
12783	25036	30995	1.89	1.5E-01	AJ276242.1	NT	Sus scrofa mRNA for sodium iodide symporter
202	13098		1.72	1.4E-01	AF008683.1	NT	Homo sapiens T cell receptor beta locus, TCRBV8S5P to TCRBV21S2A2 region
800	13658		3.82	1.4E-01	D78638.1	NT	Xenopus laevis mRNA for DNA (cytosine-5)-methyltransferase, complete cds
1236	13995		2.48	1.4E-01	T01864.1	EST_HUMAN	yc94c01.x1 Scores fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:112032 3'
1742	14484		1.5	1.4E-01	6879980	NT	Mus musculus growth differentiation factor 5 (Gdf5), mRNA
1745	14487	27186	1.71	1.4E-01	AE001710.1	NT	Thermococcus maritima section 22 of 136 of the complete genome
1898	14635		0.99	1.4E-01	AW135741.1	EST_HUMAN	UHH-B11-act-a-09-D-J1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2714009 3'
1978	14714		9.33	1.4E-01	AA720615.1	EST_HUMAN	ny72d07.s1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:1283821 3'
2478	15196	27835	1.38	1.4E-01	P30708	SWISSPROT	GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE PRECURSOR (GPAT)
2795	15500	28241	4.23	1.4E-01	AI083466.1	EST_HUMAN	wn74d01.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2441966 3'
3879	16629	29267	0.96	1.4E-01	R50232.1	EST_HUMAN	yc87d03.f1 Scores infant brain 1NfLS Homo sapiens cDNA clone IMAGE:41467 5'
3879	16629	29268	0.96	1.4E-01	R69232.1	EST_HUMAN	yc87d03.f1 Scores infant brain 1NfLS Homo sapiens cDNA clone IMAGE:41467 5'
4153	16895	29524	8.89	1.4E-01	AI089094.1	EST_HUMAN	bc66c02.x1 NCI_CGAP_Luz2 Homo sapiens cDNA clone IMAGE:2273570 3'
4153	16895	29525	8.90	1.4E-01	AI089094.1	EST_HUMAN	bc66c02.x1 NCI_CGAP_Luz2 Homo sapiens cDNA clone IMAGE:2273570 3'
4212	16953	29577	3.73	1.4E-01	AE001710.1	NT	Thermococcus maritima section 22 of 136 of the complete genome
5014	17735	30342	0.94	1.4E-01	U12283.1	NT	Mus musculus transcription factor USF2 (USF2) gene, exons 8-10 and complete cds
5223	18030	30656	5.48	1.4E-01	T80677.1	EST_HUMAN	ye15c111.s1 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:117812 3'
5246	18052	30870	4.6	1.4E-01	AB004558.1	NT	Candida tropicalis DNA for mitochondrial NADP-linked isocitrate dehydrogenase, complete cds
5246	18052	30880	4.6	1.4E-01	AB004558.1	NT	Candida tropicalis DNA for mitochondrial NADP-linked isocitrate dehydrogenase, complete cds
6205	18980	31959	3	1.4E-01	BE328891.1	EST_HUMAN	hr07d02.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:3133538 3'
6391	19160	32160	5.6	1.4E-01	AU117147.1	EST_HUMAN	AU117147 HEMBA1 Homo sapiens cDNA clone HEMBA1000769 5'
6391	19160	32161	5.8	1.4E-01	AU117147.1	EST_HUMAN	AU117147 HEMBA1 Homo sapiens cDNA clone HEMBA1000769 5'
6477	19244	32244	3.14	1.4E-01	AW082796.1	EST_HUMAN	xb7d12.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2681751 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6490	19257		1.64	1.4E-01	BE286536.1	EST_HUMAN	601193523F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537581 5'
6509	19274	32275	2.45	1.4E-01	BF378533.1	EST_HUMAN	QV1-UM0038-060300-105-069 UM0038 Homo sapiens cDNA
7026	18718		0.65	1.4E-01	AL118598.1	EST_HUMAN	DKFZp761A0810.1 761 (synonym: hary2) Homo sapiens cDNA clone DKFZp761A0810 5'
7284	19067		1.51	1.4E-01	AW015373.1	EST_HUMAN	UH-B10-se1-09-0-J1.51 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2710289 3'
7821	20192	35283	1.19	1.4E-01	U88945.1	NT	Oryctolagus cuniculus fructose 1,6 biphosphatase aldolase (AldB) gene, complete cds
7953	20317	33427	0.98	1.4E-01	AI305192.1	EST_HUMAN	q180512.x1 Scores_NH_HMP1_S1 Homo sapiens cDNA clone IMAGE:1879383 3'
8373	21066		1.23	1.4E-01	AV650047.1	EST_HUMAN	AV650047 GLG Homo sapiens cDNA clone GI CFS406 3'
8983	21375		0.57	1.4E-01	AA30093.1	EST_HUMAN	t62612.x1 Scores_NSIF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2128111 3' similar to TR-002710 O02710 GAG POLYPROTEIN.
8811	21503	34650	4.18	1.4E-01	AA307073.1	EST_HUMAN	EST178192 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
8982	21583	34722	0.59	1.4E-01	AW023636.1	EST_HUMAN	df88503.y1 Morion Fetal Cochlea Homo sapiens cDNA clone IMAGE:2487485 5'
9021	21711	34864	0.97	1.4E-01	R62746.1	EST_HUMAN	Y10h05.1 Scores_pleocenta N52HP Homo sapiens cDNA clone IMAGE:138873 5'
9021	21711	34865	0.97	1.4E-01	R62746.1	EST_HUMAN	Y10h05.1 Scores_pleocenta N52HP Homo sapiens cDNA clone IMAGE:138873 5'
9085	21774	34868	0.81	1.4E-01	BF310859.1	EST_HUMAN	601865455F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124824 5'
9175	21845	35011	1.24	1.4E-01	W83411.1	EST_HUMAN	z894604.1 Scores_fetal_heart_NbH-H19W Homo sapiens cDNA clone IMAGE:357102 5' similar to contains element KER repetitive element.
9246	21925	35095	0.46	1.4E-01	X73283.1	NT	M. variellii genes rpoH, rpoB and rpoA
9246	21925	35096	0.46	1.4E-01	X73283.1	NT	M. variellii genes rpoH, rpoB and rpoA
9258	21937	35111	1.46	1.4E-01	Y10196.1	NT	Homo sapiens PHF5 gene
9258	21937	35112	1.46	1.4E-01	Y10196.1	NT	Homo sapiens PHF5 gene
9360	20421	33541	1.96	1.4E-01	AF121391.1	NT	Drosophila melanogaster signal transducing adaptor protein (STAM), serine threonine kinase I α (IAL), and zinc finger protein (DINZ1) genes, complete cds
9704	22355	35551	0.97	1.4E-01	X6902.1	NT	C. parvifrons ORF for putative membrane transport protein
9887	22337	35732	1.26	1.4E-01	AF023813.1	NT	Macronitium levitum small ribosomal protein 4 (rps4) gene, chloroplast gene encoding chloroplast protein, partial cds
9988	22336	35846	0.56	1.4E-01	AW021908.1	EST_HUMAN	df28h08.y1 Morion Fetal Cochlea Homo sapiens cDNA clone IMAGE:2485094 5'
9988	22336	35847	0.56	1.4E-01	AW021908.1	EST_HUMAN	df28h08.y1 Morion Fetal Cochlea Homo sapiens cDNA clone IMAGE:2485094 5'
10157	22905	36022	0.81	1.4E-01	BF375295.1	EST_HUMAN	MF3-S10218-211288-013-408 ST0218 Homo sapiens cDNA
10157	22905	36023	0.81	1.4E-01	BF375295.1	EST_HUMAN	MF3-S10218-211288-013-408 ST0218 Homo sapiens cDNA
10560	23007		0.57	1.4E-01	TB4283.1	EST_HUMAN	y47d03.1 Scores_fetal_liver spleen 11NLS Homo sapiens cDNA clone IMAGE:111365 5'
10469	23145	36372	0.82	1.4E-01	Z99117.1	NT	Bacillus subtilis complete genome (section 14 of 21): from 2599451 to 2812970
10607	23301		1.64	1.4E-01	AA811480.1	EST_HUMAN	cd96503.51 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1320384 3'
10746	23433	36878	3.24	1.4E-01	R63400.1	EST_HUMAN	y70055.1 Scores_breast 2NblBst Homo sapiens cDNA clone IMAGE:154088 5'
10954	23631	36878	1.31	1.4E-01	AW104982.1	EST_HUMAN	xd73e10.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603274 3'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11036	23707	36876	1.3	1.4E-01	T06102.1	EST_HUMAN	yef7g10.11 Sources fetal liver spleen 1NF5 Homo sapiens cDNA clone IMAGE:120630 5'
11036	23707	36876	1.3	1.4E-01	T06102.1	EST_HUMAN	yef7g10.11 Sources fetal liver spleen 1NF5 Homo sapiens cDNA clone IMAGE:120630 5'
11038	23709	36879	2.35	1.4E-01	P08648	SWISSPROT	INTEGRIN ALPHA-5 PRECURSOR (FIBRONECTIN RECEPTOR ALPHA SUBUNIT) (INTEGRIN ALPHA-F) (VLA-5) (CD49E)
11202	23924	37215	1.06	1.4E-01	X60062.1	NT	C-peptide gene ORF for putative membrane transport protein
11301	19987		1.41	1.4E-01	AW015373.1	EST_HUMAN	UI-H-BIO-act-c-09-0-UI.1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2710289 3'
11448	23213	38445	2.37	1.4E-01	U28760.1	NT	Bonella burgdorferi glyceraldehyde-3-phosphate dehydrogenase (GAPDH), phosphoglycerate kinase (PGK), triosephosphate isomerase (TPI) genes, complete cds
11512	24112		1.82	1.4E-01	X532102.1	NT	Mmusculus p16K gene for 16 kDa protein
11743	24335	37061	1.83	1.4E-01	AF146783.2	NT	Mus musculus neuromedin U precursor (Nmu) gene, partial cds; (P)LP (Tpht) gene, partial cds; CLOCK (Clock) gene, complete cds; PFT27 (PFT27) gene, complete cds; and HBAR (H-bar) gene, complete cds
11827	24411	37747	1.31	1.4E-01	AW684572.1	EST_HUMAN	NIH408.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872319 3'
11827	24411	37748	1.31	1.4E-01	AW684572.1	EST_HUMAN	NIH408.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872319 3'
12213	23172	30804	1.98	1.4E-01	AB000960.1	NT	Ephydratia fluviatilis mRNA for aldolase, partial cds
12261	24706	31049	2.03	1.4E-01	X74773.1	NT	P. salina pleated gene secY
12275	24714		2.2	1.4E-01	11988117	NT	Rattus norvegicus desmin (Des), mRNA
12318	25393		2.84	1.4E-01	BE513802.1	EST_HUMAN	60131 9039FT NIH_MGC_3 Homo sapiens cDNA clone IMAGE:3634329 5'
12413	24794		1.35	1.4E-01	AF083221.1	NT	Fugu rubripes putative neurotransmitter receptors, YDR140w homolog, and glyceraldehyde ribonucleotide transferase (GART) genes, complete cds
12423	24801		2.97	1.4E-01	D04004.1	NT	Synochrysis sp. PC08693 complete genome, 23/27, 2608787-3002865
12500	25407		3.15	1.4E-01	P10447	SWISSPROT	TYROSINE-PROTEIN KINASE TRANSFORMING PROTEIN ABL
12708	25221		6.26	1.4E-01	D62863.1	NT	Mus musculus mRNA for prolactin, complete cds
12779	25063		2.37	1.4E-01	AW377698.1	EST_HUMAN	MFO-HT0208-221288-204-c08 HT0208 Homo sapiens cDNA
314	13118	25756	3.12	1.3E-01	4758467	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
314	13118	25757	3.12	1.3E-01	4758467	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
516	13300	25822	2.8	1.3E-01	AB013139.1	NT	Homo sapiens gene for NBS1, complete cds
621	13400	26035	1.05	1.3E-01	AJ277606.1	NT	Human calicivirus HUNLV/Girlington/93/UK RNA for capsid protein (ORF2), strain HUNLV/Girlington/93/UK
621	13400	26036	1.05	1.3E-01	AJ277606.1	NT	Human calicivirus HUNLV/Girlington/93/UK RNA for capsid protein (ORF2), strain HUNLV/Girlington/93/UK
824	13504	26284	0.92	1.3E-01	X53330.1	NT	P. dumerilii histone gene cluster for core histones H2A, H2B, H3 and H4
874	13643	26313	1.8	1.3E-01	AF136518.1	NT	Rattus norvegicus A-kinase anchor protein mRNA, complete cds
1005	13706	26425	1.31	1.3E-01	AL117078.1	NT	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation

Page 107 of 538
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO	Exon SEQ ID NO	ORF SEQ ID NO	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1105	13862		2.6	1.3E-01	AL115285.1	NT	Bovine chere strain T4 cDNA library under conditions of nitrogen deprivation
1183	13945	28009	1.13	1.3E-01	AV712467.1	EST_HUMAN	AV712467 DCA Homo sapiens cDNA clone DCAAF05 5'
1425	14172		1.18	1.3E-01	AF146277.1	NT	Homo sapiens adapter protein CWS mRNA, complete cds
1850	14598	27303	0.87	1.3E-01	6880987	NT	Mus musculus collagen, type XI, alpha 1 (Col11a1), mRNA
1852	14687	27400	2.18	1.3E-01	AL117078.1	NT	Bovine chere strain T4 cDNA library under conditions of nitrogen deprivation
2167	14898		1.22	1.3E-01	AJ243678.1	NT	Rhodospirillum rubrum scd3085, pucA5, pucB8, pucA6, pucB7, pucA7, pucB8, pucA8 and pucC genes and ORF151
2288	15013		1.2	1.3E-01	AW812104.1	EST_HUMAN	RC4-ST073-191089-032-d12 ST073 Homo sapiens cDNA
2379	15101		3.34	1.3E-01	AE001016.1	NT	Archaeoglobus fulgidus section 91 of 172 of the complete genome
2692	15308	28042	4.76	1.3E-01	M88918.1	NT	Cerastium auratus keratin type I mRNA, complete cds
3085	15831	28474	1.01	1.3E-01	AL165207.2	NT	Homo sapiens chromosome 21 segment HS21C007
3443	16199	28849	0.96	1.3E-01	M21572.1	NT	Bovine branched chain alpha-keto acid dehydrogenase mRNA, complete cds
3889	16718		1.43	1.3E-01	AL161581.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 77
4117	16859		1.27	1.3E-01	AF020743.1	NT	Bacteriophage SPB-2 complete genome
4137	16879		4.24	1.3E-01	AW364341.1	EST_HUMAN	QV3-DT0018-081298-036-a03 DT0018 Homo sapiens cDNA
4145	16887	29518	2.03	1.3E-01	AF028805.1	NT	Schistosoma mansoni fructose biphosphate aldolase mRNA, complete cds
4163	16903	29532	18.52	1.3E-01	AW273741.1	EST_HUMAN	xc28710.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813905 3'
4257	16968	29627	0.99	1.3E-01	AV752279.1	EST_HUMAN	AV752279 NPD Homo sapiens cDNA clone NPDAZE02 5'
4257	16968	29628	0.99	1.3E-01	AV752279.1	EST_HUMAN	AV752279 NPD Homo sapiens cDNA clone NPDAZE02 5'
4278	17018		12.76	1.3E-01	AL165280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4446	17181	28906	0.77	1.3E-01	M21572.1	NT	Bovine branched chain alpha-keto acid dehydrogenase mRNA, complete cds
4497	17233	29863	2.68	1.3E-01	BE272390.1	EST_HUMAN	801128006F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:2980063 5'
4883	17888		0.74	1.3E-01	BF091880.1	EST_HUMAN	RC4-TN0077-180900-012-c05 TN0077 Homo sapiens cDNA
5242	18048	30677	0.83	1.3E-01	AW499888.1	EST_HUMAN	h07006.x1 NCL_CGAP_N0412 Homo sapiens cDNA clone IMAGE:2872879 3' similar to contains L1.b1 L1 L1 repetitive element
5278	18083	30739	2.28	1.3E-01	AW804417.1	EST_HUMAN	QV0-JM0063-100400-190-a08 JM0063 Homo sapiens cDNA
5414	18213		0.77	1.3E-01	AF107793.1	NT	Emm388 nucleic acid dependent RNA polymerase II RPB140 (RPB2) gene, partial cds
5497	18295		0.75	1.3E-01	AF068890.1	NT	Hepatitis C virus 5' UTR genome polyprotein gene, partial cds
5638	18433	31346	0.97	1.3E-01	BF210020.1	EST_HUMAN	801674501F1 NIH_MGC 54 Homo sapiens cDNA clone IMAGE:4101119 5'
5898	18881	31628	0.57	1.3E-01	BF527281.1	EST_HUMAN	802038337F2 NCL_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4177233 5'
5898	18881	31629	0.57	1.3E-01	BF527281.1	EST_HUMAN	802038337F2 NCL_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4177233 5'
6392	19161	32162	15.12	1.3E-01	AB031328.1	NT	Schistosoma mansoni pombi gene for Alp41, complete cds
6474	19241	32241	1.95	1.3E-01	X88891.1	EST	Cjlecchus Intron 4 of visual pigment gene (rod allele)
6891	19808		0.75	1.3E-01	W29367.1	EST_HUMAN	2873 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6614	19651		0.99	1.3E-01	BF629590.1	EST_HUMAN	602044346F1 NCJ_CGAP_Bim77 Homo sapiens cDNA clone IMAGE:4181896 5'
7162	19649		1.96	1.3E-01	HA8684.1	EST_HUMAN	Y63002.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:207075 5'
7650	20554		0.88	1.3E-01	BE272393.1	EST_HUMAN	601126096F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:2890063 5'
7673	20568	33084	1.34	1.3E-01	11422324	NT	Homo sapiens PROR611 protein (PROR611), mRNA
7902	20597	33727	1.17	1.3E-01	BF605022.1	EST_HUMAN	602187015T1 NIH_MGC 49 Homo sapiens cDNA clone IMAGE:4296074 3'
8136	20630		0.51	1.3E-01	BE902528.1	EST_HUMAN	601335926F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3889634 5'
8172	20666	33088	0.64	1.3E-01	11421656	NT	Homo sapiens TED protein (TED), mRNA
8243	20637		4.47	1.3E-01	Z74102.1	NT	S. cerevisiae chromosome IV reading frame ORF YDL054c
8285	20679		4.44	1.3E-01	8923819	NT	Homo sapiens core histone H2A2.2 (MACROH2A2), mRNA
8426	21119	34258	1.02	1.3E-01	BF660522.1	EST_HUMAN	602187015T1 NIH_MGC 49 Homo sapiens cDNA clone IMAGE:4296074 3'
8847	21538	34683	0.56	1.3E-01	R11172.1	EST_HUMAN	Y69911.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:129284 5' similar to SP-RL2B_RAT P29316 60S RIBOSOMAL PROTEIN
8847	21538	34684	0.56	1.3E-01	R11172.1	EST_HUMAN	Y69911.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:129284 5' similar to SP-RL2B_RAT P29316 60S RIBOSOMAL PROTEIN
9119	21807	34973	0.81	1.3E-01	11068003	NT	Plutella xylostella granulovirus, complete genome
9110	21807	34974	0.81	1.3E-01	11068003	NT	Plutella xylostella granulovirus, complete genome
9372	21947	35120	3.71	1.3E-01	AF023128.1	NT	Oryzobacter cuniculus H+K+ATPase alpha 2c subunit mRNA, complete cds
9671	22323		0.56	1.3E-01	N86348.1	EST_HUMAN	J7837F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J7837 5' similar to B-CELL RECEPTOR ASSOCIATED PROTEIN (BAP) 2b
9651	22598		0.96	1.3E-01	6393940	NT	Rattus norvegicus peptidyl arginine diesterase, type IV (P44), mRNA
10030	22678	36884	0.95	1.3E-01	AW851999.1	EST_HUMAN	MR2-CT0222-201089-001-e01 CT0222 Homo sapiens cDNA
10291	25128	36161	1.1	1.3E-01	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
10423	23069	36290	0.64	1.3E-01	AU121237.1	EST_HUMAN	AU121237 HEMBB1 Homo sapiens cDNA clone HEMBB1002387 5'
10471	23117	36347	0.52	1.3E-01	AW247836.1	EST_HUMAN	2820637 Sprime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2820637 3'
10528	23225		2.83	1.3E-01	BF330690.1	EST_HUMAN	MF4-8170359-130700-010-H08 BT0358 Homo sapiens cDNA
10716	23458	36701	1.56	1.3E-01	H01883.1	EST_HUMAN	J62409.1 Soares placenta Nb2H9 Homo sapiens cDNA clone IMAGE:150448 5'
11039	23710	36980	1.33	1.3E-01	AFT19117.1	NT	Homo sapiens dopamine transporter (SLC6A3) gene, complete cds
11216	23879		3.28	1.3E-01	6671745	NT	Mus musculus coflin 2, muscle (Cif2), mRNA
11304	23963	37263	1.42	1.3E-01	BF677328.1	EST_HUMAN	602087045F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4261348 5'
11304	23963	37264	1.42	1.3E-01	BF677328.1	EST_HUMAN	602087045F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4261348 5'
11589	24188	37504	4.26	1.3E-01	BE279449.1	EST_HUMAN	601158032F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3504804 5'
11723	24317	37840	1.94	1.3E-01	BE618394.1	EST_HUMAN	601473503F1 NIH_MGC 88 Homo sapiens cDNA clone IMAGE:3876208 5'
11755	24348	37876	1.44	1.3E-01	BF683565.1	EST_HUMAN	602139760F1 NIH_MGC 48 Homo sapiens cDNA clone IMAGE:4500963 5'
12114	24907	31088	1.37	1.3E-01	BE618346.1	EST_HUMAN	601462741F1 NIH_MGC 87 Homo sapiens cDNA clone IMAGE:3869003 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12247	24695		4.43	1.3E-01	AI242780.1	NT	Gallus gallus eyc1 gene for lympholectin, exon 1-3
12274	24713		1.51	1.3E-01	Z15984.1	NT	Ruvoglicus crp2 gene for cystatin related protein 2
12806	24915		1.43	1.3E-01	AB028626.1	NT	Ephydial fluvialis mRNA for eALK-8, complete cds
12838	24938		2.28	1.3E-01	AW001114.1	EST_HUMAN	wu24609.x1 Soares. Diceraphis codon_NHCO Homo sapiens cDNA clone IMAGE:2520977 3' similar to TR:060287 KIAA0039 PROTEIN ;
374	13189	25944	8.42	1.2E-01	AA21744.1	EST_HUMAN	R59602.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2086539 3' similar to gb:U05780_ma1
415	12828		1.05	1.2E-01	U6612.1	NT	Dichostelium discoideum ORF DG1016 gene, partial cds
534	13317		4.33	1.2E-01	AF039442.1	NT	Homo sapiens colon cancer antigen NY-CO-45 mRNA, partial cds
1365	14103	28778	3.22	1.2E-01	AU149146.1	EST_HUMAN	AU149146 NT2RM4 Homo sapiens cDNA clone NT2RM4001691 3'
1355	14103	28779	3.22	1.2E-01	AU149146.1	EST_HUMAN	AU149146 NT2RM4 Homo sapiens cDNA clone NT2RM4001691 3'
1362	14110		4.36	1.2E-01	AV735249.1	EST_HUMAN	AV735249 cda Homo sapiens cDNA clone cdaAJB11 5'
1498	14243		1.23	1.2E-01	AA897474.1	EST_HUMAN	Q16871 ANTHMULLERIAN HORMONE TYPE II RECEPTOR PRECURSOR ;
1627	14373	27082	1.26	1.2E-01	Q14834	SWISSPROT	NUCLEAR FACTOR OF ACTIVATED T-CELLS, CYTOPLASMIC 4 (T CELL TRANSCRIPTION FACTOR NFAT3) (NF-ATC4) (NF-AT3)
1646	14382	27082	2.61	1.2E-01	AI285402.1	EST_HUMAN	q6909.x1 NCI CGAP_Eac2 Homo sapiens cDNA clone IMAGE:1960553 3'
1762	14504		20.17	1.2E-01	X68211.1	NT	H.sapiens DNA for endogenous retroviral like element
1913	14650		1.03	1.2E-01	AW446368.1	EST_HUMAN	U1H-B13-ald-e-10-Q-U1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2734554 3'
2181	14910	27642	1.75	1.2E-01	BF248480.1	EST_HUMAN	601821597F1 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:4046224 5'
2284	15008	27748	1.2	1.2E-01	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
2597	15311	28047	1.49	1.2E-01	AW008558.1	EST_HUMAN	QV3-BND046-223005-125-F10 BND046 Homo sapiens cDNA
							1s18g07.x1 NCI CGAP_Pw1 Homo sapiens cDNA clone IMAGE:2228988 3' similar to TR:Q14048 Q14048 COLLAGEN VI ALPHA-2 ALTERNATIVE C-TERMINAL DOMAIN [1]; contains element PTRS repetitive element ;
2731	15438	28176	1.12	1.2E-01	AI623388.1	EST_HUMAN	
2847	16616	28282	1.3	1.2E-01	U18018.1	NT	Human E1A enhancer binding protein (E1A-P) mRNA, partial cds
2803	19689	28318	2.5	1.2E-01	AI720470.1	EST_HUMAN	ae00c09.x1 Barstead codon HPLRB7 Homo sapiens cDNA clone IMAGE:2335024 3' similar to gb:U05095
2835	15701	28350	2.92	1.2E-01	M16394.1	NT	90S RIBOSOMAL PROTEIN L30 (HUMAN);
3004	15770	28418	0.97	1.2E-01	X58882.1	NT	Human creatine kinase-B mRNA, complete cds
3224	15887	28641	1.99	1.2E-01	AW370968.1	EST_HUMAN	Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)
3252	16014		1.12	1.2E-01	U67600.1	NT	QV1-BT0259-281089-021-c06 BT0259 Homo sapiens cDNA
3472	16228		0.8	1.2E-01	Z89118.1	NT	Methanococcus jannaschii section 142 of 150 of the complete genome
3511	16287	28921	0.82	1.2E-01	X58882.1	NT	Bacillus subtilis complete genome (section 15 of 21); from 2795131 to 3013540
							Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3511	16287	28922	0.82	1.2E-01	X66882.1	NT	Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)
3592	16228		1.48	1.2E-01	Z99118.1	NT	Bacillus subtilis complete genome (section 15 of 21); from 2795131 to 3013540
4160	18000	29528	1.97	1.2E-01	Z54255.1	NT	P. clarkii mRNA; repeat region (ID 2MR17)
4160	18000	29528	1.97	1.2E-01	Z54255.1	NT	P. clarkii mRNA; repeat region (ID 2MR17)
4072	17408	30041	1.1	1.2E-01	Z48183.1	NT	L. esculentum mRNA for glycylase-1
4739	17471		0.92	1.2E-01	AF221833.1	NT	Rana ridibunda pituitary adenylate cyclase-activating polypeptide variant 2 precursor, mRNA, complete cds, alternatively spliced
5170	17979	30492	0.81	1.2E-01	AA744689.1	EST_HUMAN	nc85001.s1 NC1 CGAP GC81 Homo sapiens cDNA clone IMAGE:1282650 3'
5217	18025	30449	1	1.2E-01	AF223381.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
5227	18034	30559	2.59	1.2E-01	W33035.1	EST_HUMAN	z08002.1 Source parathyroid tumor NIH/PA Homo sapiens cDNA clone IMAGE:321699 5'
5284	18089	30749	2.3	1.2E-01	Z98266.1	NT	Homo sapiens gene encoding phosphatidyl (exons 1-13)
5418	18217	30928	0.88	1.2E-01	Z48234.1	NT	M. domestica Borkh. Gremy Smith adh mRNA for alcohol dehydrogenase
6107	18584	31853	1.80	1.2E-01	BE520945.1	EST_HUMAN	80743351B1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3805613 5'
6153	18630	31868	1.36	1.2E-01	P10842	SWISSPROT	MATING-TYPE P-SPECIFIC POLYPEPTIDE PI
6206	18681	31960	2.35	1.2E-01	AW845275.1	EST_HUMAN	IL0-CT0031-221098-113-e04 GT0031 Homo sapiens cDNA
6270	19043	32020	1.64	1.2E-01	M28925.1	NT	Mouse galactose transferase mRNA, complete cds
6337	19107	32097	0.57	1.2E-01	AA747335.1	EST_HUMAN	nc85001.s1 NC1 CGAP GC81 Homo sapiens cDNA clone IMAGE:1288024 3'
6550	19315	32321	1.14	1.2E-01	BF347685.1	EST_HUMAN	50202312F1 NC1 CGAP Bmr67 Homo sapiens cDNA clone IMAGE:4156396 5'
6700	19516	32658	0.86	1.2E-01	AF295739.1	NT	JG virus antigen, VP2, VP3, VP1, large T antigen, and small t antigen genes, complete cds
7193	20488		1.4	1.2E-01	BE007072.1	EST_HUMAN	PM3-BN0137-280300-002-49 BN0137 Homo sapiens cDNA
7882	20567	33983	4.36	1.2E-01	AN913753.1	EST_HUMAN	wc99g03.x1 NC1 CGAP GC8 Homo sapiens cDNA clone IMAGE:2328904 3' similar to SW:GST2_HUMAN
7908	20601	33731	0.67	1.2E-01	A02269	SWISSPROT	Q99735 MICROSOMAL GLUTATHIONE S-TRANSFERASE II
8208	20602	34037	0.73	1.2E-01	A1632681.1	EST_HUMAN	NADH:UBIQUINONE OXIDOREDUCTASE B22 SUBUNIT (COMPLEX I-B22) (CH-B22)
8295	20986		10.29	1.2E-01	AW089552.1	EST_HUMAN	af71610.x1 Barsted colon HPLR57 Homo sapiens cDNA clone IMAGE:2377495 3'
							xc40407.x1 NC1 CGAP_Eco2 Homo sapiens cDNA clone IMAGE:2587597 3' similar to gb:M13452 LAMIN A (HUMAN).
8315	21008		3.34	1.2E-01	AF083772.1	NT	Staphylococcus aureus plasmid pSK23 putative recombinase Sin (sin) gene, partial cds; and transcriptional regulator QacR (qacR) and multidrug efflux protein QacB (qacB) genes, complete cds
8364	21047	34184	0.98	1.2E-01	J03956.1	NT	N. crassa vacuolar ATPase 57-Kd subunit (vma-2) gene, complete cds
8354	21047	34185	0.99	1.2E-01	J03956.1	NT	N. crassa vacuolar ATPase 57-Kd subunit (vma-2) gene, complete cds
8409	21191		1.09	1.2E-01	AJ271798.1	NT	Homo sapiens Xq pseudosubnormal region; segment 2/2
8589	21281		1.48	1.2E-01	U32714.1	NT	Haemophilus influenzae Rd section 28 of 163 of the complete genome

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8823	21315		0.82	1.2E-01	X15101.1	NT	Musculus DNA fragment of Apolipoprotein B gene
9471	22080	36252	2.93	1.2E-01	X77691.1	NT	S. cerevisiae HXT5 gene
9806	22555	35750	1.59	1.2E-01	AV710857.1	EST_HUMAN	AV710857 Cu Homo sapiens cDNA clone CUAKE08 5'
10811	23305	36843	1.38	1.2E-01	BF314481.1	EST_HUMAN	601900763F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130103 5'
10801	23484		2.17	1.2E-01	D28184.1	NT	Yeast MPT5 gene for suppressor protein, complete cds
10969	23672		3.18	1.2E-01	BE962324.2	EST_HUMAN	601655578R1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846283 3'
11094	23764		1.68	1.2E-01	BF314481.1	EST_HUMAN	601900763F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130103 5'
11220	23883	37168	2.61	1.2E-01	AF180463.1	NT	Homo sapiens dyx11 intermediate chain DNAR1 (DNAR1) gene, exon 17
11283	23944	37238	1.65	1.2E-01	R40248.1	EST_HUMAN	y80002.s1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:28880 3'
11492	24093		1.87	1.2E-01	M65109.1	EST_HUMAN	Rabbit glycogen-associated protein phosphatase regulatory subunit (RG1) mRNA, complete cds
11892	24482		2.53	1.2E-01	AV698033.1	EST_HUMAN	Homo sapiens GLC Homo sapiens cDNA clone GLCF1812 3'
12230	24683		3.52	1.2E-01	AJ271736.1	NT	Homo sapiens Xq pseudocentromeric region, segment 2/2
12805	25351	30605	2.87	1.2E-01	Q04912	SWISSPROT	MACROPHAGE-STIMULATING PROTEIN RECEPTOR PRECURSOR (MSP RECEPTOR) (P185-RON) (CDW136) (CD136 ANTIGEN)
12417	24799		3.16	1.2E-01	AF18892.1	NT	Drosophila melanogaster strain Oregon R, potential RNA-binding protein gene, complete cds; and syntrophin gene, partial cds
12410	13317		3.19	1.2E-01	AF038442.1	NT	Homo sapiens cdon cancer antigen NY-CO-45 mRNA, partial cds
12525	24872		2.11	1.2E-01	X33081.1	NT	R. norvegicus NF98 gene for 89kDa neurofilament
12586	25364	30611	1.44	1.2E-01	BE061418.1	EST_HUMAN	QV4-BT0234-111198-031-g10 BT0234 Homo sapiens cDNA
12810	24917	31007	5.86	1.2E-01	A1269603.1	EST_HUMAN	gr20g05.x1 NCL_CGAP_Lus Homo sapiens cDNA clone IMAGE:189840 3'
12832	24932		2.83	1.2E-01	L10187.1	NT	Xenopus laevis integrin alpha 3 subunit mRNA, partial cds
12838	25289		7.95	1.2E-01	Q98433	SWISSPROT	CYCLIN T
12863	24982	30989	1.39	1.2E-01	AE004428.1	NT	Vibrio cholerae chromosome II, section 85 of 93 of the complete chromosome
12860	16228		1.81	1.2E-01	289118.1	NT	Bacillus subtilis complete genome (section 16 of 21): from 2795131 to 3013540
12812	25372	30614	1.38	1.2E-01	9845232	NT	Mus musculus protein (16kDa) similar to human SYK interacting protein (p18K), mRNA
651	13334	25664	0.8	1.1E-01	A1591003.1	EST_HUMAN	h18308.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167983 3'
601	13379	25010	1.65	1.1E-01	AA569006.1	EST_HUMAN	hmo9g11.s1 NCL_CGAP_C010 Homo sapiens cDNA clone IMAGE:109920 3' similar to gb-X06985_mel
1032	13792	26452	2.03	1.1E-01	BF697308.1	EST_HUMAN	hmo21284.f1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4286771 5'
1083	13821		1.3	1.1E-01	AL161560.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 80
1136	15561	26552	4.62	1.1E-01	AW972159.1	EST_HUMAN	EST38142 IMAGE: ressequences, MAGL Homo sapiens cDNA
1227	13977	26848	3.01	1.1E-01	D64004.1	NT	Synechocystis sp. PCC6803 complete genome, 23/27 2688767-3002985
1311	14237	26943	2.52	1.1E-01	AU140393.1	EST_HUMAN	AU140393 PLACE2 Homo sapiens cDNA clone IMAGE:2000403 5'
2312	15037		1.85	1.1E-01	6755215	NT	Mus musculus pre T-cell antigen receptor alpha (Ptra), mRNA

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2540	15530		1	1.1E-01	6979876	NT	Rat1a, norvegicus Procollagen II alpha 1 (Col2a1), mRNA
2572	15286		1.17	1.1E-01	AW821809.1	EST_HUMAN	RCG-ST0379-210100-032-g04 ST0379 Homo sapiens cDNA
3030	15706	28442	0.82	1.1E-01	F03295.1	EST_HUMAN	HSC-IRF022 normalized infant brain cDNA Homo sapiens cDNA clone c-1f02.3'
3335	16068		1.76	1.1E-01	6753231	NT	Mus musculus calcium channel, voltage-dependent, T type, alpha 1G subunit (Cacna1g), mRNA
3415	16173	29822	2.11	1.1E-01	BE363186.1	EST_HUMAN	801308870F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3627066 5'
3444	16200	28850	1.21	1.1E-01	X62195.1	NT	C. reinhardtii nuclear gene on linkage group XX
3570	16325	28972	0.77	1.1E-01	Y07695.1	NT	A. limnerus gene for transposase
3688	16441		0.74	1.1E-01	P97394	SWISSPROT	ANNEXIN XI (GALCYLIN-ASSOCIATED ANNEXIN 90) (GAP-50)
3696	16450	20039	1.47	1.1E-01	X52708.1	NT	G. gallus gene encoding non-histone chromosomal protein HM3-14b, exons 4 and 5
4080	16833	29456	1.28	1.1E-01	AW819412.1	EST_HUMAN	MR3-ST0290-200100-025-g07 ST0290 Homo sapiens cDNA
4080	16833	29457	1.28	1.1E-01	AW819412.1	EST_HUMAN	MR3-ST0290-200100-025-g07 ST0290 Homo sapiens cDNA
4226	16967		8.78	1.1E-01	AF167069.1	NT	Drosophila melanogaster Klaricht protein (Klar) mRNA, complete cds
4254	16985	29024	0.77	1.1E-01	AW82056.1	EST_HUMAN	IL5-UM0070-020500-069-w08 UM0070 Homo sapiens cDNA
4594	17329	29056	0.86	1.1E-01	S44957.1	NT	Tap1-1 integral membrane protein TAPA-1 [mice, B cell lymphoma line 38C13, Genomic, 1973 nt, segment 1 of 7]
4780	17512	30134	1.2	1.1E-01	Y07695.1	NT	A. limnerus gene for transposase
4957	18639		0.85	1.1E-01	AF030001.1	NT	Mus musculus major histocompatibility locus class II region/butyrophilin-like protein gene, partial cds; Nucleo-X, PBX2, RAGE, lysophosphatidic acid acyl transferase-alpha, palmitoyl-protein thioesterase 2 (PPT2), CREB-PP, and tenascin X (TNX) genes, complete
5077	17798	30412	1	1.1E-01	P70281	SWISSPROT	SYNAPTOMAL COMPLEX PROTEIN 3 (SCP-3 PROTEIN)
5584	18381		1.4	1.1E-01	AA747216.1	EST_HUMAN	nc76003.s1 NC1_CGAP_E171 Homo sapiens cDNA clone IMAGE:1288140 similar to contains Alu repetitive element/contains element MER35 repetitive element
5593	18448	31381	1.25	1.1E-01	AF020827.1	NT	8 Homo sapiens discalysoid virus 3 (DAGK3) gene, exon 6
5987	18490	31399	0.86	1.1E-01	AL110685.1	NT	Borhya ciferia strain T4 cDNA library under conditions of nitrogen deprivation
5745	18537	31450	1.81	1.1E-01	X68951.1	NT	S. pombe ste8 gene encoding protein kinase
5781	18572	31500	5.31	1.1E-01	M86533.1	NT	Providencia reijgeri penicillin G amidease gene
5836	18718	31676	1.97	1.1E-01	AJ007873.1	NT	Homo sapiens LGMD2B gene
5955	18737	31696	1.75	1.1E-01	BE760162.1	EST_HUMAN	PK3-F70024-130600-004-f12 FT0024 Homo sapiens cDNA
5976	18757	31719	9.4	1.1E-01	AW85369.1	EST_HUMAN	RC3-CT0254-280998-011-e01 CT0254 Homo sapiens cDNA
6330	19100	32098	0.97	1.1E-01	AL163282.2	NT	Homo sapiens chromosome 21 segment HS210382
6338	19108	32098	1.25	1.1E-01	AF035746.1	EST_HUMAN	AF035746 Human salivary gland cell line HSG Homo sapiens cDNA clone IMAGE:1841099 3'
6381	19150	32149	0.72	1.1E-01	AJ216307.1	EST_HUMAN	AF035746 Human salivary gland cell line HSG Homo sapiens cDNA clone IMAGE:1841099 3'
6512	19277	32278	3.71	1.1E-01	OR6935	SWISSPROT	ACETYL-COENZYME A SYNTHETASE (ACETATE-COA LIGASE) (ACYL-ACTIVATING ENZYME)
6804	19367		3.03	1.1E-01	AF032022.1	NT	Homo sapiens synactin 4 binding protein UNC-18c (UNC-18c) mRNA, complete cds

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6807	19814	32855	2.81	1.1E-01	11432372	NT	Homo sapiens phosphatidylinositol glycan, class B (PIGB), mRNA
6948	19430	32445	0.7	1.1E-01	AE002150.1	NT	Ureaplasma urealyticum section 50 of 50 of the complete genome
6948	19430	32446	0.7	1.1E-01	AE002150.1	NT	Ureaplasma urealyticum section 50 of 50 of the complete genome
7087	25423		0.89	1.1E-01	BF382758.1	EST_HUMAN	601816524F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4060653.5'
7203	25107	32984	0.84	1.1E-01	AF000006.1	NT	Pyrococcus horikoshii OT3 genomic DNA, 1166001-1485000 nt, position (677)
7435	20112	33199	7.16	1.1E-01	BF684628.1	EST_HUMAN	602140976F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302019.5'
7435	20112	33200	7.16	1.1E-01	BF684628.1	EST_HUMAN	602140976F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302019.5'
7555	20225	33329	1.93	1.1E-01	P41067	SWISSPROT	TRAB PROTEIN
7555	20225	33329	1.93	1.1E-01	P41067	SWISSPROT	TRAB PROTEIN
7895	20263	33371	3.35	1.1E-01	AA788784.1	EST_HUMAN	af31203.st Scores_perfectfold_tumor_NIH-HPA Homo sapiens cDNA clone 1240403.3' similar to gb.J03483
7898	20593	33690	0.5	1.1E-01	U07492.1	NT	CHROMOGRAMIN A PRECURSOR (HUMAN);
8107	20801	33933	1.7	1.1E-01	AA493574.1	EST_HUMAN	Methanococcus jannaschii section 34 of 150 of the complete genome
8107	20801	33934	1.7	1.1E-01	AA493574.1	EST_HUMAN	rh04g10.st NCI_Q349P_Thy1 Homo sapiens cDNA clone IMAGE:943362
8153	20847	33979	1.15	1.1E-01	XG1233.1	NT	rh04g10.st NCI_Q349P_Thy1 Homo sapiens cDNA clone IMAGE:943362
8183	20887		1.14	1.1E-01	AW817918.1	EST_HUMAN	H. sapiens L15 gene
8240	20943	34081	1.45	1.1E-01	AL134349.1	EST_HUMAN	PM1-ST0270-080200-001-409 ST0270 Homo sapiens cDNA
8717	21409	34552	2.08	1.1E-01	U02492.1	NT	DKFZp547P194.J1 547 (synonym: HMT) Homo sapiens cDNA clone DKFZp547P194.5
8810	21502	34649	0.86	1.1E-01	A1807474.1	EST_HUMAN	Pedicularis edulis/H. plantarid pSMB74 pediclin Ach production (pap) gene cluster papA, papB, papC and papD genes, complete cds
8906	21507	34736	0.47	1.1E-01	AF060081.1	EST_HUMAN	wf48c01.x1 Scores_NFE_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358816.3' similar to contains Alu repetitive element
8941	21632	34776	2.04	1.1E-01	AA192153.1	EST_HUMAN	Homo sapiens C10orf5 large protein mRNA, complete cds
8941	21632	34776	2.04	1.1E-01	AA192153.1	EST_HUMAN	zp63b12.J1 Stratiogene muscle 637209 Homo sapiens cDNA clone IMAGE:927743.5'
8941	21632	34776	2.04	1.1E-01	AA192153.1	EST_HUMAN	zp63b12.J1 Stratiogene muscle 637209 Homo sapiens cDNA clone IMAGE:927743.5'
9033	21723	34877	0.74	1.1E-01	Y12727.1	NT	P. furiosus petid dht5 gene and argf gene
9063	21752	34912	2.04	1.1E-01	T72875.1	EST_HUMAN	yt19N03.st Scores_fetal liver spleen_NFLS Homo sapiens cDNA clone IMAGE:108725.3' similar to
9060	21778		0.8	1.1E-01	BE863200.1	EST_HUMAN	gbxM81181 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-2 (HUMAN);
9322	21988		0.88	1.1E-01	BE142305.1	EST_HUMAN	601436972F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922048.5'
9398	22058		2	1.1E-01	BF085148.1	EST_HUMAN	CM9-HT0142-271089-028-g11 HT0142 Homo sapiens cDNA
9810	22401		0.5	1.1E-01	AL161543.2	NT	MF2-GN0027-040900-005-408 GN0027 Homo sapiens cDNA
10017	22665		0.45	1.1E-01	BE315509.1	EST_HUMAN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 43
10106	22764		1.57	1.1E-01	R60590.1	EST_HUMAN	601140231F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049543.5'
10235	22863	36098	1.26	1.1E-01	U06529.1	NT	yp8a05.st Scores_placenta_Nb22-IP Homo sapiens cDNA clone IMAGE:147084.3'
10708	15796	28442	2.05	1.1E-01	F03285.1	EST_HUMAN	Cercaria capillata yoyo retrotransposon gag-like, pol-like and env-like genes, complete cds
10708	15796	28442	2.05	1.1E-01	F03285.1	EST_HUMAN	HSC1R022 normalized brain cDNA Homo sapiens cDNA clone c-1R02.3'

Page 114 of 536
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10840	23622		2.75	1.1E-01	AF168032.1	NT	Carassius auratus activin beta A precursor, mRNA, complete cds
10974	23650	36803	3.91	1.1E-01	R23706.1	EST_HUMAN	J43912.1 Sources placenta NB24P Homo sapiens cDNA clone IMAGE:131769 5' similar to contains Alu repetitive element; contains TAR1 repetitive element
10983	23658	36911	1.39	1.1E-01	8681351	NT	Rattus norvegicus Phosphofructokinase, liver, B-type (Pfkf), mRNA
11002	19480	31399	1.31	1.1E-01	AL110885.1	NT	Bovine divera strain T4 cDNA library under conditions of nitrogen deprivation
11134	23802	37079	1.58	1.1E-01	X70058.1	NT	M.musculus cytokine gene
11169	23836	37117	3.21	1.1E-01	Z11910.1	NT	Z.mobilis tgi and lig genes encoding tRNA guanine transglycosylase and DNA ligase
11169	23836	37118	3.21	1.1E-01	Z11910.1	NT	Z.mobilis tgi and lig genes encoding tRNA guanine transglycosylase and DNA ligase
11277	23838	37230	2.81	1.1E-01	P17437	SWISSPROT	SKIN SECRETORY PROTEIN XP2 PRECURSOR (APEG PROTEIN)
11674	24269		1.65	1.1E-01	AL161511.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 23
11690	24529		1.36	1.1E-01	AA192153.1	EST_HUMAN	z69512.1 Strategene muscle 937209 Homo sapiens cDNA clone IMAGE:627743 5'
12066	24598		3.92	1.1E-01	BE767023.1	EST_HUMAN	RC3-NT0112-120000-014-03 NT01112 Homo sapiens cDNA
12341	25160		1.97	1.1E-01	BE974568.1	EST_HUMAN	601180551R2 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950804 3'
12760	25012	30977	3.15	1.1E-01	BF236753.1	EST_HUMAN	601003350F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4124085 5'
1179	13932		2.74	1.0E-01	D02855	SWISSPROT	DEOXYRIBONUCLEASE II PRECURSOR (DNASE II) (ACID DNASE) (LYSOSOMAL DNASE II)
1249	13908	26665	2.63	1.0E-01	A085409.1	EST_HUMAN	wa08401.X1 NCL_CGAP_Kd111 Homo sapiens cDNA clone IMAGE:2498577 3' similar to contains MER7 t3
1371	14119	26794	1.95	1.0E-01	AL161504.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 16
2463	15210	27952	1.11	1.0E-01	AW451366.1	EST_HUMAN	U1-H-B33-ac-d-07-Q-U1a1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736420 3'
3503	15259	28013	1.19	1.0E-01	BF033091.1	EST_HUMAN	601456301F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3859649 5'
3708	19491	29100	1.03	1.0E-01	BF236818.1	EST_HUMAN	601006469F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4154071 5'
3817	19599	29200	0.96	1.0E-01	AF297081.1	NT	Escherichia coli enterotoxin EspC (espC) gene, complete cds; and unknown genes
3817	19599	29201	0.96	1.0E-01	AF297081.1	NT	Escherichia coli enterotoxin EspC (espC) gene, complete cds; and unknown genes
3835	19695	29326	2.53	1.0E-01	BF365703.1	EST_HUMAN	QV2-NT0048-160800-316-405 NT0048 Homo sapiens cDNA
4518	17253		0.95	1.0E-01	AI792346.1	EST_HUMAN	an3204.14 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700358 5'
4864	17398	30032	1.19	1.0E-01	U50460.1	NT	Drosophila melanogaster tyrosine kinase p45 lacform (fw) mRNA, complete cds
4968	18044	30217	2.35	1.0E-01	AW952344.1	EST_HUMAN	EST364414 IMAGE resequencing, MAGB Homo sapiens cDNA
5238	17944		9.73	1.0E-01	W84480.1	EST_HUMAN	zh62h04.at Sources_fetal_liver_spleen_INFIL5_S1 Homo sapiens cDNA clone IMAGE:410695 3'
5789	18580		1.21	1.0E-01	AK024472.1	NT	Homo sapiens mRNA for FLJ00085 protein, partial cds
5834	18717	31675	14.15	1.0E-01	AF274875.1	NT	Homo sapiens growth factor receptor-bound protein 7 (GRB7) gene, complete cds
6243	19017	31997	0.99	1.0E-01	AA481879.1	EST_HUMAN	z441g10.at Sources ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:756258 3' similar to contains L1.13 L1 repetitive element
6256	19030	32005	0.7	1.0E-01	AA406039.1	EST_HUMAN	z467c12.at Sources_testis_NHT Homo sapiens cDNA clone IMAGE:743062 3'

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6824	19680		1.81	1.0E-01	R2821.1	EST_HUMAN	Y34406.r1 Soares placenta Nb2-IP Homo sapiens cDNA clone IMAGE:131676 5' similar to contains Alu repetitive element;
7635	20300		2.67	1.0E-01	Y12488.1	NT	Musculus wtn gene
7709	20373	33486	0.65	1.0E-01	AJ011400.1	NT	Bos taurus mRNA for b17.2 subunit of NADH:ubiquinone oxidoreductase complex (complex I)
7709	20373	33487	0.65	1.0E-01	AJ011400.1	NT	Bos taurus mRNA for b17.2 subunit of NADH:ubiquinone oxidoreductase complex (complex I)
7834	20520	33556	0.65	1.0E-01	AA861001.1	EST_HUMAN	alk32g01.at Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407866 3' similar to gb:M34182 CAMP-DEPENDENT PROTEIN KINASE, GAMMA-CATALYTIC SUBUNIT (HUMAN);
8068	20760		0.5	1.0E-01	4758365	NT	Homo sapiens fibroblast growth factor 13 (FGF13) mRNA
8390	21083		0.96	1.0E-01	AW198797.1	EST_HUMAN	X09801.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2675688 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); contains TARI.13 TAR.1 repetitive element;
9084	21773	34937	1.04	1.0E-01	AF102856.2	NT	Rattus norvegicus synaptic SAPAP-interacting protein Synapton mRNA, complete cds
9396	22057	35228	0.51	1.0E-01	R44983.1	EST_HUMAN	Y53304.at Soares Infant brain TNB Homo sapiens cDNA clone IMAGE:34549 3'
9407	22069		1.6	1.0E-01	M76729.1	NT	Human pro-alpha-1 (V) collagen mRNA, complete cds
9450	22090		3.02	1.0E-01	AE001801.1	NT	Haecobacter pV01 strain J99 section 62 of 132 of the complete genome
9464	22074	35245	0.75	1.0E-01	W01965.1	EST_HUMAN	z68810.at Soares_fetal_heart_NH-H19W Homo sapiens cDNA clone IMAGE:327282 3'
9721	22372	35571	1.67	1.0E-01	BF240154.1	EST_HUMAN	601905951FT NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4133487 5'
9835	22486	35687	8.12	1.0E-01	AB046799.1	NT	Homo sapiens mRNA for KIAA1579 protein, partial cds
9835	22486	35688	8.12	1.0E-01	AB046799.1	NT	Homo sapiens mRNA for KIAA1579 protein, partial cds
10043	22691		0.97	1.0E-01	AW657425.1	EST_HUMAN	EST359516 IMAGE ressequense, IMAGE Homo sapiens cDNA
10048	22868	35912	0.51	1.0E-01	T51852.1	EST_HUMAN	Y62906.at Stratiotes fetal spleen (8837205) Homo sapiens cDNA clone IMAGE:77562 3' similar to contains Alu repetitive element
10226	22877	36089	0.89	1.0E-01	BE782750.1	EST_HUMAN	601594004FT NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939098 5'
10554	23250		1.95	1.0E-01	AU159127.1	EST_HUMAN	AU159127 THYR01 Homo sapiens cDNA clone THYR01000895 3'
10958	23634	36884	2.35	1.0E-01	BF242946.1	EST_HUMAN	60177703FT NIH_MGC_65 Homo sapiens cDNA clone IMAGE:4109089 5'
10958	23634	36885	2.35	1.0E-01	BF242946.1	EST_HUMAN	60177703FT NIH_MGC_65 Homo sapiens cDNA clone IMAGE:4109089 5'
11378	23983	37283	5.22	1.0E-01	BE790543.1	EST_HUMAN	601582558FT NIH_MGC_7 Homo sapiens cDNA clone IMAGE:393734 5'
11510	24110		1.52	1.0E-01	AF000400.1	NT	Escherichia coli O157:H7 genomic DNA, prophage (Salv1-VT1) Inserted region, substrain:RMD 0508852
11594	24193	37511	1.46	1.0E-01	Z71446.1	NT	A. thaliana mRNA for GLC-b chloride channel protein
11694	24193	37512	1.46	1.0E-01	Z71446.1	NT	A. thaliana mRNA for GLC-b chloride channel protein
11832	24416	37756	1.89	1.0E-01	AV849033.1	EST_HUMAN	AV849033 GLC Homo sapiens cDNA clone GLCBP-G01 3'
11832	24416	37756	1.89	1.0E-01	AV849033.1	EST_HUMAN	AV849033 GLC Homo sapiens cDNA clone GLCBP-G01 3'
12083	24921		4.32	1.0E-01	BE537119.1	EST_HUMAN	601085556FT NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451833 5'
12300	24725		1.71	1.0E-01	7682165	NT	Homo sapiens KIAA0514 gene product (KIAA0514). mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12317	24738		2.22	1.0E-01	X00854.1	NT	Drosophila melanogaster fzf gene
12614	24821		2.74	1.0E-01	BE637719.1	EST_HUMAN	601086564P1 NIH MGC 10 Homo sapiens cDNA clone IMAGE:3451833 5'
12677	25318		5.93	1.0E-01	U68834.1	NT	Saccharomyces cerevisiae suppressor of ABF1 (SAB2) gene, complete cds
12733	25002		9.8	1.0E-01	AF001507.1	NT	Bacillus halodurans genomic DNA, section 1/14
2781	15486	28224	1.27	9.9E-02	AF274008.1	NT	Drosophila melanogaster cAMP-dependent protein kinase type II regulatory subunit (pkar-II) mRNA, complete cds
2790	15495	28235	1.53	9.9E-02	BE645554.1	EST_HUMAN	601070210F1 NIH MGC 12 Homo sapiens cDNA clone IMAGE:3456365 5'
2790	15495	28235	1.53	9.9E-02	BE645554.1	EST_HUMAN	601070210F1 NIH MGC 12 Homo sapiens cDNA clone IMAGE:3456365 5'
3260	16022	28871	1.32	9.9E-02	AF090810.1	NT	Homo sapiens neurodin III-alpha gene, partial cds
3833	16883	29324	0.75	9.9E-02	A821037.1	EST_HUMAN	244503.x5 Soares ovary tumor N8HOT Homo sapiens cDNA clone IMAGE:740832 3'
4832	17987	30003	0.83	9.9E-02	BE674246.1	EST_HUMAN	76777122.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3278968 3'
8876	17951	30547	9.17	9.9E-02	D83710.1	NT	Aspergillus terreus BSD mRNA for blastidin S deaminase, complete cds
7815	20510	33634	0.83	9.9E-02	AW103088.1	EST_HUMAN	repetitive element/contains element MIR MIR repetitive element;
7815	20510	33635	0.83	9.9E-02	AW103088.1	EST_HUMAN	repetitive element/contains element MIR MIR repetitive element;
9156	21887	35055	0.98	9.9E-02	07551111	NT	Mus musculus phospholipid transfer protein (Pltp), mRNA
550	13333		1.43	9.9E-02	X96338.1	NT	O. sativa RAmY3C gene for alpha-amylase
3100	15865		0.9	9.9E-02	4504578	NT	Homo sapiens I factor (complement) (IF) mRNA
3142	15906	28550	3.04	9.9E-02	AF184274.1	NT	Daucus carota leucoanthocyanidin dioxygenase 2 (LDOX) mRNA, LDOX-2 allele, complete cds
4198	16939	29564	6.24	9.9E-02	AF257326.1	NT	Leptophaeria maculans beta-tubulin mRNA, complete cds
4198	16939	29565	6.24	9.9E-02	AF257326.1	NT	Leptophaeria maculans beta-tubulin mRNA, complete cds
7381	20081		0.77	9.9E-02	X54133.1	NT	Human HPTP delta mRNA for protein tyrosine phosphatase delta
9153	21884		1.16	9.9E-02	M61943.1	NT	Human laminin B1 chain gene, exon 26
11437	23204	36436	2.05	9.9E-02	BF037421.1	EST_HUMAN	601480793P1 NIH MGC 66 Homo sapiens cDNA clone IMAGE:3884287 5'
12052	24570		1.78	9.9E-02	8838751	NT	Rattus norvegicus microtubule-associated protein tau (Mapt), mRNA
1328	14077	28752	1.31	9.7E-02	AB005908.1	NT	Alce erubescens mRNA for NADP-malic enzyme, complete cds
1580	14326		1.49	9.7E-02	4503710	NT	Homo sapiens fibroblast growth factor receptor 3 (echinodermless, thanatophoric dwarfism) (FGFR3) mRNA
2257	14884	27724	2.08	9.7E-02	BE168600.1	EST_HUMAN	QV1-HT0516-070300-085-04 HT0516 Homo sapiens cDNA
3965	16714		3.48	9.7E-02	Q98795	SWISSPROT	CELL SURFACE A33 ANTIGEN PRECURSOR (GLYCOPROTEIN A33)
5261	18087	30895	0.84	9.7E-02	AF069188.1	NT	Caulobacter crescentus thymidylate kinase (trk) and DNA polymerase III delta prime subunit (cheC) genes, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5261	18067	30596	0.84	9.7E-02	AF089188.1	NT	Caulobacter crescentus thymidylate kinase (tnk) and DNA polymerase III delta prime subunit (dnaC) genes, complete cds
5624	18708	31662	1.43	9.7E-02	AW064476.1	EST_HUMAN	EST1366546 MAGE resequences, MAGE Homo sapiens cDNA
7198	19884	32658	3.24	9.7E-02	Z89119.1	NT	Bacillus subtilis complete genome (section 18 of 21): from 2697771 to 3213410
7692	20577	33705	1.28	9.7E-02	N22788.1	EST_HUMAN	yw41603.s1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:254788.3
7882	20577	33706	1.28	9.7E-02	N22788.1	EST_HUMAN	yw41603.s1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:254788.3
8749	21440	34587	1.49	9.7E-02	AI803964.1	EST_HUMAN	wc78608.s1 NCI CGAP_OV38 Homo sapiens cDNA clone IMAGE:2549747.3 similar to gb:K52851.mat
11152	23819		2.84	9.7E-02	U58337.1	NT	PEPTIDYL-PROLYL GIS-TRANS ISOMERASE A (HUMAN);
2009	14744	27470	1.11	9.6E-02	AI080721.1	EST_HUMAN	Mus musculus Igkln (Lgln) mRNA, partial cds
2009	14744	27471	1.11	9.6E-02	AI080721.1	EST_HUMAN	oz47011.x1 Soares NIHMFu_S1 Homo sapiens cDNA clone IMAGE:1670485.3
4311	17050	29675	5.8	9.6E-02	Z32698.2	NT	oz47011.x1 Soares NIHMFu_S1 Homo sapiens cDNA clone IMAGE:1670485.3
4940	17968	30276	0.98	9.6E-02	AW068230.1	EST_HUMAN	Protein ribonuclease H1bri1 operon, strain H14320
6014	18795		3.13	9.6E-02	BE910398.1	EST_HUMAN	EST1378303 MAGE resequences, MAGE Homo sapiens cDNA
8274	20968		0.6	9.6E-02	AU137084.1	EST_HUMAN	60146088F1 NIH MGC.70 Homo sapiens cDNA clone IMAGE:3900166.5
9444	22121	35300	1.31	9.6E-02	AV687898.1	EST_HUMAN	AU137084 PLACE1 Homo sapiens cDNA clone PLACE1005740.5
9772	22423		1.12	9.6E-02	BE894865.1	EST_HUMAN	AV687898 GKGC Homo sapiens cDNA clone GKCAAH02.5
9639	22587	35790	1.29	9.6E-02	AJ243211.1	NT	601434050F1 NIH MGC.72 Homo sapiens cDNA clone IMAGE:3910963.5
10020	22688	35884	0.5	9.6E-02	BF677270.1	EST_HUMAN	Homo sapiens DMBT1 candidate tumour suppressor gene, exons 1 to 55
10051	22969	35916	1.84	9.6E-02	AB013985.1	NT	602068799F1 NIH MGC.83 Homo sapiens cDNA clone IMAGE:4250980.5
10051	22969	35916	1.84	9.6E-02	AB013985.1	NT	Anthrax toxin Tm3 pseudogene for transposase (in S-6 copy)
10158	22806	38024	3.95	9.6E-02	P08174	SWISSPROT	Anthrax toxin Tm3 pseudogene for transposase (in S-6 copy)
10643	23334	39572	7.22	9.6E-02	Z76702.1	NT	COMPLEMENT DECAV-ACCELERATING FACTOR PRECURSOR (CD55)
12652	24054		3.34	9.6E-02	H14590.1	EST_HUMAN	Myobactin tuberculous H37Rv complete genome, segment 102162
4081	16825	29452	2.1	9.5E-02	AW062395.1	EST_HUMAN	ym18N03.s1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:48863.3
9579	18378	31289	0.85	9.5E-02	P81854	SWISSPROT	CN2-BN0023-060200-087-f12 BN0023 Homo sapiens cDNA
9688	19081	32728	0.55	9.5E-02	AA780728.1	EST_HUMAN	TRANSKETOLASE 2 (TK 2) (TRANSKETOLASE RELATED PROTEIN)
7202	19688	32963	4.72	9.5E-02	AB003473.1	NT	ac88609.s1 Stragene fetal retina 937202 Homo sapiens cDNA clone IMAGE:967736.3
7467	20141	33294	7.68	9.5E-02	AL101598.2	NT	Trimeric flavin oxidase DNA for phospholipase A2 inhibitor, complete cds
7597	18378	31289	0.84	9.5E-02	P51854	SWISSPROT	Arachidonic thiolase DNA chromosome 4, coding fragment No. 38
7760	20475	33600	1.83	9.5E-02	BF036881.1	EST_HUMAN	TRANSKETOLASE 2 (TK 2) (TRANSKETOLASE RELATED PROTEIN)
7780	20475	33601	1.83	9.5E-02	BF036881.1	EST_HUMAN	601435642F1 NIH MGC.66 Homo sapiens cDNA clone IMAGE:3857243.5
10578	23273	39509	2.36	9.5E-02	BF036881.1	EST_HUMAN	601435642F1 NIH MGC.66 Homo sapiens cDNA clone IMAGE:3857243.5

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10578	23273	36510	2.36	9.4E-02	BF035861.1	EST_HUMAN	601433842F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3957243 5'
1828	14564	27275	2.82	9.4E-02	BF071063.1	EST_HUMAN	602150682F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4281917 5'
1857	14595	27310	0.90	9.4E-02	U55044.1	NT	Carla porcellus 3beta-hydroxysteroid sulfotransferase mRNA, complete cds
1857	14595	27311	0.98	9.4E-02	U55044.1	NT	Carla porcellus 3beta-hydroxysteroid sulfotransferase mRNA, complete cds
3800	10810	29249	4.43	9.4E-02	Z33039.1	NT	M. capricornum DNA for CONTIG MC073
6225	15999	31976	0.63	9.4E-02	AF097393.1	NT	Triticum aestivum heat shock protein 101 (Hsp101a) mRNA, complete cds
8498	21180		2.46	9.4E-02	Z46893.1	NT	Actinobacter sp. cydD, ccdM, ccdM, lgsS, rubA, rubB, sebB, oxyR, ptk, mtrA, ORF2 and ORF3 genes
10851	20106	33256	2.44	9.4E-02	L78833.1	NT	Human BRCA1, Rho7 and vail genes, complete cds, and lpr35 gene, partial cds
11041	25255		1.78	9.4E-02	U31815.1	NT	Rattus norvegicus calcium channel alpha-1C subunit (ROB2) mRNA, partial cds
12671	24965		1.92	9.4E-02	AF198036.1	NT	Myoplasma pulmonis hypothetical membrane protein P63 gene, complete cds
2968	15794		1.97	9.3E-02	4809280	NT	Homo sapiens BAI1-associated protein 3 (BAIAP3) mRNA
3026	15792		6.32	9.3E-02	5912525	NT	Homo sapiens nasopharyngeal epithelium specific protein 1 (NESG1), mRNA
3251	16013	26885	1.85	9.3E-02	BF575511.1	EST_HUMAN	602133066F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:428260 5'
4132	16874	29802	3.51	9.3E-02	BE361943.1	EST_HUMAN	601280082F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607653 5'
4132	16874	29503	3.51	9.3E-02	BE361943.1	EST_HUMAN	601280082F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607653 5'
4685	17419		2.04	9.3E-02	AV732224.1	EST_HUMAN	AV732224 HTF Homo sapiens cDNA clone HTFAUA08 5'
5576	16373		0.67	9.3E-02	AP001507.1	NT	Bacillus halodurans genomic DNA, section 1/14
8146	20840	33972	0.62	9.3E-02	AW596007.1	EST_HUMAN	EST168 Human Fetal Brain MATCHMAKER cDNA Library Homo sapiens cDNA
9810	22263	35440	2.15	9.3E-02	BE062631.2	EST_HUMAN	601655938F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855081 3'
10091	22739	35953	3.67	9.3E-02	Q16034	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0032
10091	22739	35954	3.67	9.3E-02	Q16034	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0032
10218	22666		3.5	9.3E-02	AW206117.1	EST_HUMAN	U1-H-B1-46kH-05-0-U1 s1 NCI_CGAP_Sus3 Homo sapiens cDNA clone IMAGE:2723553 3'
12194	23151		2.51	9.3E-02	AJ248850.1	NT	Photobacterium damselae subsp. damselae partial gyrB gene for DNA gyrase B subunit
12550	25209		8.43	9.3E-02	AW498950.1	EST_HUMAN	h28h12.1X1 Soesne_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910887 3'
							Mus musculus major histocompatibility locus class II region; Fc-binding protein Docx (DAXX) gene, partial cds; Bclg1 (BING1), leucine (leucine), RalGDS-like factor (RLF), KE2 (KE2), BING4 (BING4), beta1, 3-galactosyl transferase (beta1,3-galactosyl) t2
12762	26254		2.1	9.3E-02	AF100856.1	NT	Molluscum contagiosum virus subtype 1, complete genome
222	13034	25698	8.37	9.2E-02	U60315.1	NT	Molluscum contagiosum virus subtype 1, complete genome
222	13034	25698	8.37	9.2E-02	U60315.1	NT	Molluscum contagiosum virus subtype 1, complete genome
222	13034	25670	8.37	9.2E-02	U60315.1	NT	Molluscum contagiosum virus subtype 1, complete genome
2224	14052		1.68	9.2E-02	R54156.1	EST_HUMAN	VS8807.1 Soesne infant brain INIB Homo sapiens cDNA clone IMAGE:41618 5'
3175	15038	26587	3.26	9.2E-02	Q28631	SWISSPROT	MAJOR EPIDIDYMYMIS-SPECIFIC PROTEIN E4 (EPIDIDYMAL PROTEIN BE-20)
3269	16091	28709	0.85	9.2E-02	AA534354.1	EST_HUMAN	nt79601 s1 NCI_CGAP_Coo Homo sapiens cDNA clone IMAGE:920136 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3573	18328		1.28	9.2E-02	8755215	NT	Mus musculus pro T-cell antigen receptor alpha (Pzra), mRNA
4213	19594		0.96	9.2E-02	U92048.1	NT	Human herpesvirus 1 strain KOS-83, latency-associated transcript, promoter region
4274	17013		0.78	9.2E-02	BE289722.1	EST_HUMAN	600944395F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2980178 5'
7907	20602	33732	1.98	9.2E-02	T46920.1	EST_HUMAN	y60c03.r1 Stragene placenta (837225) Homo sapiens cDNA clone IMAGE:68908 5' similar to similar to
8078	20770	33899	2.2	9.2E-02	X65256.1	NT	gp-359009 GUANINE NUCLEOTIDE-BINDING PROTEIN G(S), ALPHA SUBUNIT (HUMAN)
11895	24290	37614	1.27	9.2E-02	AF026552.3	NT	H. vulgare xylose isomerase gene
12738	25412		1.4	9.2E-02	11496872	NT	Mesorobius aureus octadecan precursor (OVI) gene, complete cds
414	12825	25439	4.19	9.1E-02	X77695.1	NT	Podospira arctica mitochondrial, complete genome
4461	17187	20812	1.33	9.1E-02	AL015542	NT	O. cuniculus K12 keratin gene
							Arabidopsis thaliana DNA chromosome 4, contig fragment No. 54
5643	18438	31352	1.44	9.1E-02	AF129756.1	NT	Homo sapiens MSH-85 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G6d, G6e, G6f, BAT5, G6b,
7285	19688	33045	14.94	9.1E-02	AW160688.1	EST_HUMAN	CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, IC7 LST-1, LTB, TNF, and LTA genes, complete cds
7575	20244	33349	0.78	9.1E-02	AF000061.1	NT	sa74605.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781968 5'
7809	20275	33383	0.72	9.1E-02	U38073.1	NT	Aeropyrum pernix genomic DNA, section 47
8822	21514	34859	0.88	9.1E-02	Y14378.1	NT	Mus musculus thymopoietin zeta mRNA, complete cds
10327	22874	36218	1.37	9.1E-02	T02884.1	EST_HUMAN	Homo sapiens gamma adducin gene, exon 9
10354	23001	36218	1.25	9.1E-02	S74050.1	NT	FB19F10 Fetal brain, Stragene Homo sapiens cDNA clone FB19F10 3' end
10383	23028	36244	1.19	9.1E-02	Y11187.1	NT	Tg616=Cy actin [Tropusae grailleraeae urchins, embryos, Genomic, 5275 nt]
12110	25348		1.4	9.1E-02	AA179001.1	EST_HUMAN	A.thaliana RH1, TC1, G14587-5, G14587-8, and PRL1 genes
12181	24653		2.12	9.1E-02	AF052865.1	NT	zp33812.at Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:811783 3' similar to
12637	25204		1.83	9.1E-02	AJ291390.1	NT	SW:TRT3_HUMAN P43378 TROPONIN T, FAST SKELETAL MUSCLE, ISOFORM BETA ;
							Rattus norvegicus cell cycle protein p55CDG gene, complete cds
							Homo sapiens partial MUG3B gene for MUG3B mucin, exons 1-11
727	19501	26155	4.3	9.0E-02	P10328	SWISSPROT	FOLATE RECEPTOR ALPHA PRECURSOR (FR-ALPHA) (FOLATE RECEPTOR 1) (FOLATE
							RECEPTOR, ADULT) (ADULT FOLATE-BINDING PROTEIN) (FBP) (OVARIAN TUMOR-ASSOCIATED
							ANTIGEN MOV19) (KB CELLS FBP)
1631	14377	27064	5.28	9.0E-02	BE220482.1	EST_HUMAN	HY39710.X1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175842 3' similar to contains Alu
2808	15511	28262	6.45	9.0E-02	AF138522.1	NT	replicative element
2806	15511	28263	6.45	9.0E-02	AF138522.1	NT	HIV-1 p60gag-08 from USA envelope glycoprotein (env) gene, partial cds
3331	16901	28744	0.84	9.0E-02	AF270135.1	NT	HIV-1 p60gag-08 from USA envelope glycoprotein (env) gene, partial cds
4619	17354	29889	3.27	9.0E-02	X65740.2	NT	Dactylosium discidium spore coat structural protein SP85 (cotE) gene, complete cds
							Plasmodium falciparum P-type A TPase 3 gene

Page 120 of 536
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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5906	18661	31640	5.21	9.0E-02	W56037.1	EST_HUMAN	z88en12.1 Sources, fetal_lung, NIHIL19W Homo sapiens cDNA clone IMAGE:237694 5' similar to
6810	10381		1.14	9.0E-02	BF062851.1	EST_HUMAN	71833003.x1 NCI_CGAP_Cot10 Homo sapiens cDNA clone IMAGE:3320645 3' similar to contains Altu repetitive element;
6868	18585	32819	0.72	9.0E-02	R62805.1	EST_HUMAN	Y11008.a1 Sources placenta Nb24P Homo sapiens cDNA clone IMAGE:186003 3' Escherichia coli strain E2348/69 pathogenicity island, rOrf1 (orf1), rOrf2 (orf2), EacR (eacR), EacS (eacS), EacT (eacT), EacU (eacU), CaeD (caeD), EacC (eacC), EacV (eacV), EacZ (eacZ), EacW (eacW), EacN (eacN), SepQ (sepQ), Tr (tr), OrfU (orfU), >
12486	24645		2.01	9.0E-02	AF022288.1	NT	
1418	14166	26849	1.99	8.9E-02	BF701593.1	EST_HUMAN	602126030F2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4285651 5'
1418	14166	26850	1.96	8.9E-02	BF701593.1	EST_HUMAN	602126030F2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4285651 5'
2386	15107	27848	1.22	8.9E-02	BE153572.1	EST_HUMAN	PH04HT0339-251189-003-001 HT0339 Homo sapiens cDNA
4176	16915		1.83	8.9E-02	AF260055.1	NT	Altrichum argusatum AltrichFib2 protein (AltrichFib2) gene, partial cds
5760	18552	31474	3.22	8.9E-02	AW482122.1	EST_HUMAN	UHH-B13-alc-f08-0-U1.s1 NCI_CGAP_Sub55 Homo sapiens cDNA clone IMAGE:3068284 3'
5760	18552	31475	3.22	8.9E-02	AW482122.1	EST_HUMAN	UHH-B13-alc-f08-0-U1.s1 NCI_CGAP_Sub55 Homo sapiens cDNA clone IMAGE:3068284 3'
5776	18567	31496	3.39	8.9E-02	11433478	NT	Homo sapiens similar to endoglycan (H. sapiens) (LOC35107), mRNA
7093	19782	32848	1.84	8.9E-02	P47259	SWISSPROT	FOLD BIFUNCTIONAL PROTEIN [INCLUDES: METHYLENETETRAHYDROFOLATE DEHYDROGENASE; METHYLENETETRAHYDROFOLATE CYCLOHYDROLASE]
7458	20132		2.06	8.9E-02	Z79021.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pX20F8
7949	20644	33768	1.08	8.9E-02	P29475	SWISSPROT	NITRIC-OXIDE SYNTHASE, BRAIN (NOS, TYPE I) (NEURONAL NOS) (N-NOS) (NNOS)
8030	20725	33868	0.72	8.9E-02	BF701695.1	EST_HUMAN	(CONSTITUTIVE NOS) (NC-NOS) (BNOS)
8030	20725	33869	0.72	8.9E-02	BF701695.1	EST_HUMAN	602126111F2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4285627 5'
8406	21188	34331	4.72	8.9E-02	AA306316.1	EST_HUMAN	602126111F2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4285627 5'
9620	22173	35396	0.8	8.9E-02	A1285027.1	EST_HUMAN	EST1180187 Liver, hepatocellular carcinoma Homo sapiens cDNA 5' end q155005.x1 NCI_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:1908880 3' similar to contains MER10.b1 MER10 repetitive element;
9620	22173	35397	0.8	8.9E-02	A1285027.1	EST_HUMAN	q155005.x1 NCI_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:1908880 3' similar to contains MER10.b1 MER10 repetitive element;
9632	22284	35477	0.76	8.9E-02	AA336356.1	EST_HUMAN	EST144454 Fetal brain 1 Homo sapiens cDNA 5' end
11862	26173		1.49	8.9E-02	P30143	SWISSPROT	HYPOPHYSAL 51.7 KD PROTEIN IN THRC-TALB INTERGENIC REGION (ORF8)
11940	26207		1.48	8.9E-02	P18624	SWISSPROT	MYOSIN-2 ISOFORM
12065	24561		3.05	8.9E-02	BF060618.1	EST_HUMAN	602126062F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4286180 5'
12284	24716		1.61	8.9E-02	U29895.1	NT	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds
1352	14100	26775	1.58	8.9E-02	U27474	SWISSPROT	PROBABLE DNA LIGASE (POLYDEOXYRIBONUCLEOTIDE SYNTHASE [ATP])
3883	16633	29272	1.03	8.9E-02	AA289128.1	EST_HUMAN	EST11966 Uterus Homo sapiens cDNA 5' end

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4014	10700		3.55	8.8E-02	000208	SWISSPROT	TRANSCRIPTION INITIATION FACTOR TFIIID 135 KDA SUBUNIT (TAFII135) (TAFII130) (TAFII130)
4214	16955		0.99	8.8E-02	4502804	NT	Homo sapiens chromogranin A (parathyroid secretory protein 1) (CHGA) mRNA
4269	17009		1.27	8.8E-02	4590423	NT	Homo sapiens palmed box gene 6 (entitida, ventitida) (PAX6), isoform b, mRNA
7444	20120		0.57	8.8E-02	D17520.1	NT	Sheep mRNA for angiotensinogen, complete cds
8888	21577	34719	1.07	8.8E-02	AA151872.1	EST_HUMAN	zfp96c05.s1 Stragene cdon (8937204) Homo sapiens cDNA clone IMAGE:568288 3'
11062	23732	37003	2.7	8.8E-02	BE284455.1	EST_HUMAN	601191770F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3535648 5'
11062	23732	37004	2.7	8.8E-02	BE284455.1	EST_HUMAN	601191770F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3535648 5'
11228	23801	37178	6.92	8.8E-02	AL040126.1	EST_HUMAN	DKFZ494D1313.1 434 (synonym: hsc3) Homo sapiens cDNA clone DKFZ494D1313 5'
11805	24305	37729	1.49	8.8E-02	P97803	SWISSPROT	CYTOKINE INDUCIBLE SH2-CONTAINING PROTEIN 3 (PROTEIN EF-10)
12155	24041	31088	2.06	8.8E-02	Z71581.1	NT	S. cerevisiae chromosome XIV reading frame ORF YNL285w
1942	14388	27077	1.15	8.7E-02	AI167281.1	EST_HUMAN	ox55b01.s1 Soares_NHHMPu_S1 Homo sapiens cDNA clone IMAGE:1681161 3'
3681	19434	29077	3.86	8.7E-02	U82095.2	NT	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and blycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds
3681	19434	29078	3.86	8.7E-02	U82095.2	NT	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and blycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds
4658	17392	30027	1.19	8.7E-02	AF178936.1	NT	Mus musculus JNK interacting protein-3a (Jip3) mRNA, complete cds
6231	19037	30663	5.88	8.7E-02	AA288875.1	EST_HUMAN	z555g08.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:701438 3'
6231	19037	30664	5.88	8.7E-02	AA288875.1	EST_HUMAN	z555g08.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:701438 3'
6745	19578	32612	0.77	8.7E-02	AJ271885.2	NT	Mus musculus partial Kcnq1 gene for potassium channel protein, exons 10-14
6745	19578	32613	0.77	8.7E-02	AJ271885.2	NT	Mus musculus partial Kcnq1 gene for potassium channel protein, exons 10-14
6843	19425	32440	0.71	8.7E-02	AF281342.1	NT	Oncorhynchus mykiss TAT-binding protein 1 mRNA, partial cds
7761	20457		0.45	8.7E-02	AA284532.1	EST_HUMAN	Z220603.s1 Soares overy tumor NBH07 Homo sapiens cDNA clone IMAGE:713682 3'
8413	21106	34246	0.9	8.7E-02	AE004787.1	NT	Pseudomonas aeruginosa PA01, section 348 of 529 of the complete genome
8413	21106	34246	0.9	8.7E-02	AE004787.1	NT	Pseudomonas aeruginosa PA01, section 348 of 529 of the complete genome
10910	23304		2.46	8.7E-02	U04785.1	NT	Oryzopsis latifolia cDNA clone P-450 (GYP444) gene, 5' end
11282	23943	37237	2.95	8.7E-02	AJ007763.1	NT	Glucocorticoid oxidase (GLO) and RNA-Ala genes
12145	24633		2.1	8.7E-02	X17116.1	NT	Human DNA for immunoglobulin alpha heavy chain from a case of alpha heavy chain disease
12940	24750		1.75	8.7E-02	6879057	NT	Mus musculus nidogen 2 (Nid2), mRNA
1290	13970	28649	7.02	8.6E-02	AJ271736.1	NT	Homo sapiens Xq pseudocentromeric region; segment 22
2240	14868	27066	1.82	8.6E-02	BE408887.1	EST_HUMAN	601304016F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3630643 5'
3183	15946	28598	4.57	8.6E-02	U05488.1	NT	Trichomonas vaginalis beta-tubulin (btub1) gene, complete cds

Page 122 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3635	18398		3.77	8.6E-02	AF153362.1	NT	Dicystosellum discoidium adenyl cyclase (cysA) gene, complete cds
5134	17652		0.86	8.6E-02	BF570286.1	EST_HUMAN	602168716T1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310269 3'
6003	18784	31746	4.75	8.6E-02	Y10828.1	NT	Homo sapiens LCN1b gene
6281	19054	32033	1.56	8.6E-02	J00440.1	NT	Mouse germline IgM chain gene, D region; D-q52, mu switch region (part e)
6287	19054	32034	1.56	8.6E-02	J00440.1	NT	Mouse germline IgM chain gene, D region; D-q52, mu switch region (part e)
7481	20163	33248	1.34	8.6E-02	P14616	SWISSPROT	INSULIN RECEPTOR-RELATED PROTEIN PRECURSOR (IRR) (IR-RELATED RECEPTOR)
7831	20526	33651	1.25	8.6E-02	6790096	NT	Homo sapiens Smf2-related CBP activator protein (SRCAP) mRNA
7831	20526	33652	1.25	8.6E-02	5730068	NT	Homo sapiens Smf2-related CBP activator protein (SRCAP) mRNA
7989	20864	33788	0.62	8.6E-02	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
8031	20726		0.81	8.6E-02	U60168.1	NT	Dicystosellum discoidium proteinase subunit C2 homolog PnC (pnc) gene, complete cds
9637	22289	35482	1.76	8.6E-02	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
9673	22325		0.86	8.6E-02	AW662153.1	EST_HUMAN	h20c08.x1 NCL CGAP_GUT Homo sapiens cDNA clone IMAGE:2972846 3'
10063	22701	35918	0.81	8.6E-02	AF028604.1	NT	Rattus norvegicus SFA-1 like protein p1294 mRNA, complete cds
10865	23545	36782	1.8	8.6E-02	AF206551.1	NT	Lacerta media cytochrome c oxidase subunit 1 gene, partial cds; mitochondrial gene for mitochondrial product
10865	23545	36793	1.8	8.6E-02	AF206551.1	NT	Lacerta media cytochrome c oxidase subunit 1 gene, partial cds; mitochondrial gene for mitochondrial product
11214	23877	37163	4.04	8.6E-02	BF305606.1	EST_HUMAN	601863437F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4136216 5'
11214	23877	37164	4.64	8.6E-02	BF305606.1	EST_HUMAN	601863437F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4136216 5'
11417	23184	38414	5.97	8.6E-02	AE001073.1	NT	Archaeoglobus fulgidus section 34 of 172 of the complete genome
11668	24167	37481	2.11	8.6E-02	AF283660.1	NT	Bacillus stearothermophilus BarFI methylase (FIM) and BarFI restriction endonuclease (FIR) genes, complete cds
2306	15116	27863	3.3	8.6E-02	AE000662.1	NT	Halobacterium p401 28955 section 130 of 134 of the complete genome
5563	18390	31282	0.75	8.6E-02	AA985491.1	EST_HUMAN	0683607.x1 NCL CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1662917 3' similar to gb-K01144 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, GAMMA CHAIN PRECURSOR (HUMAN);
5621	18417		1.29	8.6E-02	P08089	SWISSPROT	M PROTEIN, SEROTYPE 6 PRECURSOR
5621	18705	31658	0.95	8.6E-02	AF233885.1	NT	Mus musculus phospholipase C-like protein mRNA, partial cds
8604	21196	34340	1.65	8.6E-02	6754779	NT	Mus musculus myosin XV (Myo15), mRNA
9738	22387	35591	2.81	8.6E-02	BE833054.1	EST_HUMAN	RC4-OT0037-200700-014-405 OT0037 Homo sapiens cDNA
9738	22387	35592	2.81	8.6E-02	BE833054.1	EST_HUMAN	RC4-OT0037-200700-014-405 OT0037 Homo sapiens cDNA
10261	22909	36119	0.94	8.6E-02	X76793.1	NT	V armodyles gene for armodykin C
10362	23028	36243	0.87	8.6E-02	11418108	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
11105	23775		8.87	8.6E-02	AF155510.1	NT	Homo sapiens hexanase precursor, mRNA, complete cds
11125	23794	37070	4.43	8.6E-02	AB001862.1	NT	Streptococcus mutans gene for glucose-1-phosphate uridylyltransferase, complete cds

Page 123 of 536

Table 4

Single Exon Probes Expressed in Brain

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3988	18737	28371	1.07	8.2E-02	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
4251	18992	28617	4.97	8.2E-02	P48860	SWISSPROT	LEUCOCYTE ANTIGEN CD67 PRECURSOR
4251	18992	28618	4.97	8.2E-02	P48860	SWISSPROT	LEUCOCYTE ANTIGEN CD67 PRECURSOR
4251	18992	28619	4.97	8.2E-02	P48860	SWISSPROT	LEUCOCYTE ANTIGEN CD67 PRECURSOR
5022	17743	30354	2.44	8.2E-02	U76009.1	NT	Mus musculus zinc transporter (ZnT-3) gene, complete cds
5070	17750		2.30	8.2E-02	Z66893.1	NT	T. inflatum transposon Resless DNA
5252	18058	30687	1.46	8.2E-02	BE867030.1	EST_HUMAN	601436678F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924623 5'
6925	19681	32707	3.09	8.2E-02	AF306553.1	NT	Bov tauris connective tissue growth factor precursor (CTGF) gene, complete cds
7632	20268		0.57	8.2E-02	AV743341.1	EST_HUMAN	AV743341 CS Homo sapiens cDNA clone CBLANF07 5'
8670	21382	34509	2.95	8.2E-02	AW876128.1	EST_HUMAN	RC3-PT0004-031209-011-405 PT0004 Homo sapiens cDNA
9499	22162	35332	5.36	8.2E-02	X04197.1	NT	Beet necrotic yellow vein virus RNA-2
9663	22315	35512	2.24	8.2E-02	BE254318.1	EST_HUMAN	601115055F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3355596 5'
12164	24646	31102	4.03	8.2E-02	AE002246.2	NT	Chlamydia pneumoniae AR39, section 73 of 84 of the complete genome
12554	25138		3.65	8.2E-02	AF275368.1	NT	Mus musculus epidermal growth factor receptor (Egfr) gene, exons 5 through 28, and complete cds, alternatively spliced
6688	18483	31378	0.79	8.1E-02	AE004006.1	NT	Xylella fastidiosa, section 152 of 229 of the complete genome
8288	18059	32040	1.19	8.1E-02	T11532.1	EST_HUMAN	A1484F Heart Homo sapiens cDNA clone A1484
7097	19786		0.66	8.1E-02	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
7482	20164		1.25	8.1E-02	A1622881.1	EST_HUMAN	w489603.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:2338503 3'
8238	20932	34007	0.61	8.1E-02	11428974.1	NT	Homo sapiens hypothetical protein FLJ10090 (FLJ10090), mRNA
8238	20932	34068	0.61	8.1E-02	11428974.1	NT	Homo sapiens hypothetical protein FLJ10090 (FLJ10090), mRNA
9812	22463		1.64	8.1E-02	AY006150.1	NT	Homo sapiens extracellular glycoprotein lacritin precursor, gene, complete cds
11482	24083	37365	2.08	8.1E-02	AL163202.2	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C002
5	19534	25447	5.03	8.0E-02	AW854683.1	EST_HUMAN	EST306723 IMAGE resequences, MAGC Homo sapiens cDNA
915	19682	26344	0.79	8.0E-02	U60315.1	NT	Mollusca contagiosum virus subtype 1, complete genome
1694	15570	27134	9.85	8.0E-02	D26835.1	NT	Human gene for dihydrocholesterol succinyltransferase, complete cds (exon 1-15)
1694	15576	27135	9.85	8.0E-02	D26835.1	NT	Human gene for dihydrocholesterol succinyltransferase, complete cds (exon 1-15)
1898	14633	27343	3.27	8.0E-02	BE067216.1	EST_HUMAN	PM8-BT0347-17020-001-J08 BT0347 Homo sapiens cDNA
2374	15098	27635	1.09	8.0E-02	D60915.1	NT	Synedochyia sp. PCC-6893 complete genome, 17/27, 2137256-2287259
2374	15098	27636	1.09	8.0E-02	D60915.1	NT	Synedochyia sp. PCC-6893 complete genome, 17/27, 2137256-2287259
2473	15191		4.2	8.0E-02	BF246744.1	EST_HUMAN	601855548F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4076819 5'
2623	13827	26468	0.96	8.0E-02	M23449.1	NT	Dickynellum dioctidum cyclic nucleotide phosphodiesterase gene, complete cds
2901	19607	29315	1.45	8.0E-02	AL445067.1	NT	Thermoplasma acidophilum complete genome, segment G5
3797	19549	29182	1.01	8.0E-02	AW866118.1	EST_HUMAN	EST378191 IMAGE resequences, MAGC Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4726	17457	30083	1.43	8.0E-02	A1434202.1	EST_HUMAN	U310221 NCI_CGAP_Gene4 Homo sapiens cDNA clone IMAGE:21321143
4764	17496		6.33	8.0E-02	X72794.1	NT	Mus musculus gene for gelatinase B
5108	17828	30443	0.87	8.0E-02	AW207037.1	EST_HUMAN	U14811-614-10-U1.1 NCI_CGAP_S103 Homo sapiens cDNA clone IMAGE:27215473
5801	18591	31516	3.16	8.0E-02	AF278948.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
7080	18591	31516	1.82	8.0E-02	AF278948.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
8027	20722	33854	3.79	8.0E-02	AL114983.1	NT	Bovine chimeric strain T4 cDNA library under conditions of nitrogen deprivation
9289	21656	35127	1.12	8.0E-02	X74208.1	NT	H. sapiens AGT gene, intron 4
9289	21656	35128	1.12	8.0E-02	X74208.1	NT	H. sapiens AGT gene, intron 4
10058	22706		0.55	8.0E-02	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C009
10882	23383	36823	2.27	8.0E-02	AF217796.1	NT	Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related protein 1 (ARFRP1) gene, complete cds
12185	24965	31070	0.39	8.0E-02	AJ008375.1	NT	Drosophila ommatidial hunchback region
12748	17903		2.21	8.0E-02	4503034	NT	Homo sapiens cAMP responsive element binding protein-like 2 (CREBL2) mRNA
2171	14900	27634	3.52	7.9E-02	BE250006.1	EST_HUMAN	60943161F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:28686105
2078	15744	26392	7.25	7.9E-02	A1582026.1	EST_HUMAN	ar98c08.x1 Barbaad colon HPLURB7 Homo sapiens cDNA clone IMAGE:21739493 similar to gb:Z29876
							60S RIBOSOMAL PROTEIN L38 (HUMAN);
							Plasmodium falciparum strain Dd2 heat shock protein 68 (HSP68), O1 (d1), O3 (d3), O2 (d2), CG8 (cg8), CG4 (cg4), CG3 (cg3), putative chloroquine resistance transporter (crt), CG9 (cg9), CG1 (cg1), CG6 (cg6), CG2 (cg2), and CG7 (cg7) genes, complete cds
3777	16529	29168	0.07	7.9E-02	AF030694.2	NT	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA
3832	16583	29217	5.01	7.9E-02	6881044	NT	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA
3832	16583	29218	5.01	7.9E-02	6881044	EST_HUMAN	602019770F1 NCI_CGAP_Bim07 Homo sapiens cDNA clone IMAGE:41654015
4845	17370	30011	0.90	7.9E-02	BF348454.1	NT	Arabidopsis thaliana RXW24L mRNA, partial cds
4760	17492		1.31	7.9E-02	AB008019.1	NT	Human bone sialoprotein (BSP) gene, exons 2, 3 and 4
4951	17581	30204	1.02	7.9E-02	L24787.1	EST_HUMAN	RC3-GN0042-310800-024-011 GN0042 Homo sapiens cDNA
6597	18380		1.16	7.9E-02	BF368016.1	EST_HUMAN	RC3-GN0042-310800-024-011 GN0042 Homo sapiens cDNA
7031	20628	33764	2.79	7.9E-02	U27832.1	NT	Secochromocytoma suppressor of Mif2 Smk4p (SMI4) gene, complete cds
6927	22376	35773	4.21	7.9E-02	A061844.1	EST_HUMAN	ou6305.01 NCI_CGAP_B2 Homo sapiens cDNA clone IMAGE:16324653 similar to WP-C37A2.2
							ou6305.01 NCI_CGAP_B2 Homo sapiens cDNA clone IMAGE:16324653 similar to WP-C37A2.2
9027	22575	35774	4.21	7.9E-02	A061844.1	EST_HUMAN	ou6305.02 y6 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:15704675 similar to contains L1.13 L1
1188	13940	26604	1.77	7.9E-02	A1783276.1	EST_HUMAN	ou6305.02 y6 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:15704675 similar to contains L1.13 L1
1188	13940	26605	1.77	7.9E-02	A1783276.1	EST_HUMAN	ou6305.02 y6 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:15704675 similar to contains L1.13 L1

Page 126 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression: Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6027	16484		2.47	7.8E-02	BE260048.1	EST_HUMAN	80643055F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959693 5'
6076	19467	32479	0.88	7.8E-02	U82895.2	NT	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and bielycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds
6076	19457	32480	0.88	7.8E-02	U82895.2	NT	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and bielycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds
8684	21378	34520	0.71	7.8E-02	BE97947.1	EST_HUMAN	901440439F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925449 5'
8779	21471	34616	0.66	7.8E-02	X78344.1	NT	S. cerevisiae CAT8 gene
8951	21642	34789	0.70	7.8E-02	AF235437.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete cds
8951	21642	34790	0.70	7.8E-02	AF235437.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete cds
9207	22015	35183	1.07	7.8E-02	AA469354.1	EST_HUMAN	nc8508.t1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:771731
9701	22352	35547	0.62	7.8E-02	Z98124.1	NT	Bacillus subtilis complete genome (section 21 of 21): from 3989281 to 4214814
10562	23258	36494	4.58	7.8E-02	U32323.1	NT	Human Interleukin-11 receptor alpha chain gene, complete cds
12764	26015		3.02	7.8E-02	AF088340.1	NT	HIV-1 strain 97USNG30 from USA, envelope glycoprotein (env) gene, partial cds
1378	15598	29500	1.25	7.7E-02	AF161897.1	NT	Homo sapiens WRN (WRN) gene, complete cds
3574	18329		1.97	7.7E-02	AJ236093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
5456	18255	31145	0.59	7.7E-02	AF082803.1	NT	Galus gallus collagen type XII alpha-1 (COL12A1) gene, promoter region and partial cds
7909	20504	33625	5.37	7.7E-02	AA402846.1	EST_HUMAN	z93d11.1 Soares ovary tumor NHO7 Homo sapiens cDNA clone IMAGE:741717 5' similar to
9735	22386	35500	3.94	7.7E-02	P39080	SWISSPROT	TR-G1173905 G1173905 SPLICEOSOME ASSOCIATED PROTEIN ; PROBABLE SERINE/THREONINE-PROTEIN KINASE YBR059C
10031	22679	35896	0.85	7.7E-02	AJ136662.1	EST_HUMAN	ta90009.x1 NCL CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2030359 3' similar to gb:Z29876 80S RIBOSOMAL PROTEIN L38 (HUMAN);
10031	22879	35896	0.85	7.7E-02	AJ136662.1	EST_HUMAN	ta90009.x1 NCL CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2030359 3' similar to gb:Z29876 80S RIBOSOMAL PROTEIN L38 (HUMAN);
10933	23613	36963	4.51	7.7E-02	11422757	NT	Homo sapiens KIAA0628 gene product (KIAA0628), mRNA
12389	25215		2.68	7.7E-02	11439859	NT	Homo sapiens interferon regulatory factor 7 (IRF7), mRNA
3303	16141	28798	1.97	7.6E-02	BE514432.1	EST_HUMAN	801316426F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3634903 5'
3403	16161	28812	1.14	7.6E-02	AA289447.1	EST_HUMAN	EST112214 Cerebellum II Homo sapiens cDNA 5' end similar to protocadherin 43
3647	16302	29862	0.71	7.6E-02	AJ400877.1	NT	Homo sapiens ASC3.3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
8006	18787	31749	0.81	7.6E-02	AJ061275.1	EST_HUMAN	an25g02.x1 Oesler Wilms tumor Homo sapiens cDNA clone IMAGE:1069730 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6263	19037	32012	0.82	7.8E-02	BE376326.1	EST_HUMAN	60123642FT NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608401.5'
9270	22024	35194	1.47	7.8E-02	AJ131018.1	NT	Homo sapiens SCL gene locus
9797	22448		1.63	7.8E-02	AL139078.2	NT	Campylobacter jejuni NGCTC11168 complete genome, segment 5/6
10119	22787	35979	0.49	7.8E-02	BE709002.1	EST_HUMAN	RC11-11T0545-020800-017-008 HT0545 Homo sapiens cDNA
10247	22895		0.78	7.8E-02	BE956038.2	EST_HUMAN	60165491RT1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3639810.3'
10487	23133	36350	0.71	7.8E-02	XG2856.1	NT	Lecithinase mRNA for those phospholipase translocator
10487	23133	36380	0.71	7.8E-02	XG2856.1	NT	Lecithinase mRNA for those phospholipase translocator
11678	24273	37985	2.45	7.8E-02	AW960845.1	EST_HUMAN	QV5-BN0046-160400-151-404 BN0046 Homo sapiens cDNA
767	13540	28189	1.44	7.8E-02	5902063	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, glycine), member 9 (SLC9A9), mRNA
767	13540	28200	1.44	7.8E-02	5902063	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, glycine), member 9 (SLC9A9), mRNA
4472	17207	29633	1.17	7.8E-02	AB015061.1	NT	Homo sapiens IL-18 gene for Interleukin-18, intron 1 and exon 2
5762	18553	31477	0.91	7.8E-02	AB48714.1	EST_HUMAN	w24180.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472257.3'
8236	20630	34069	1.05	7.8E-02	AB84397.1	EST_HUMAN	wf6302.x1 NCL CGAP_Bim25 Homo sapiens cDNA clone IMAGE:2428497.3' similar to gb:U14328 ALPHA ENOLASE (HUMAN);
8405	21068	34234	1.17	7.8E-02	AU116913.1	EST_HUMAN	AU116913 HEMIB1 Homo sapiens cDNA clone HEMIB1000284.5'
9832	22580		0.64	7.8E-02	BF221730.1	EST_HUMAN	7c61c05.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:3578504.3' similar to contains element MER27 repetitive element;
10360	23036	36252	0.7	7.8E-02	BF220809.1	EST_HUMAN	601870205F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100449.5'
10488	23134	36361	0.72	7.8E-02	X79490.1	NT	C.fiml DSM 20113 16S rDNA
466	19250	25891	1.48	7.4E-02	AW838547.1	EST_HUMAN	RC5-LT0054-280100-011-H09 LT0054 Homo sapiens cDNA
1445	14182		0.82	7.4E-02	AF030027.1	NT	Equine herpesvirus 4 strain NS80567, complete genome
2565	15289		1.32	7.4E-02	6755069	NT	Mus musculus paired-like homeodomain transcription factor 1 (Pitx1), mRNA
3581	16336	28681	0.86	7.4E-02	AB07885.1	EST_HUMAN	wf4901.x1 Scores_NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:2358385.3'
4656	17390	30024	2.03	7.4E-02	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4741	17473	30108	2.94	7.4E-02		NT	Rattus norvegicus Adrenomedullin receptor like kinase 1 (Acr1), mRNA
4889	17616	30235	2.1	7.4E-02	6678402	NT	Mus musculus ubiquitin o-terminal hydrolase related polypeptide (Uchlp), mRNA
6403	19172		2.18	7.4E-02	R17477.1	EST_HUMAN	601463306F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3665284.5'
7801	20468	33618	1.52	7.4E-02	BE860112.1	EST_HUMAN	601463306F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3665284.5'
8369	21062	34228	1.03	7.4E-02	U66080.1	NT	Human perlecan protein 2 (PWP2) gene, exons 15 to 21, and complete cds
9064	21753	34913	1.12	7.4E-02	AW629605.1	EST_HUMAN	hw674711.x1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2667861.5' similar to SW_SCA2_HUMAN O15127 SECRETORY CARRIER-ASSOCIATED MEMBRANE PROTEIN 2.;

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9064	21793	34914	1.12	7.4E-02	AW629005.1	EST_HUMAN	h197d11.v1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2967681 5' similar to SW-SCA2_HUMAN
9339	20410	33525	0.52	7.4E-02	AI672630.1	EST_HUMAN	O15127 SECRETORY CARRIER-ASSOCIATED MEMBRANE PROTEIN 2 ;
9339	20410	33526	0.52	7.4E-02	AI672630.1	EST_HUMAN	wa74d02.x1 Soares. Disclignaf. ccdn. NHGD Homo sapiens cDNA clone IMAGE:2346819 3'
9714	22365	35563	1.03	7.4E-02	U62250.1	NT	wa74d02.x1 Soares. Disclignaf. ccdn. NHGD Homo sapiens cDNA clone IMAGE:2346819 3'
9841	22492	35562	0.52	7.4E-02	BF612678.1	EST_HUMAN	Human LIM-Kinase1 and alternatively spliced LIM-Kinase1 (LIMK1) genes, complete cds
10639	23619	36899	1.26	7.4E-02	AA059167.1	EST_HUMAN	U1-H-BW1-arg-g-06-QJ1.1 NCL CGAP Sub7 Homo sapiens cDNA clone IMAGE:3059306 3'
12126	24518		1.33	7.4E-02	11628663	NT	254601.1 Soares. refina N264HR Homo sapiens cDNA clone IMAGE:381720 5'
12381	25326		2.21	7.4E-02	AW379431.1	EST_HUMAN	Homo sapiens histone deacetylase 5 (H1-CO-9), mRNA
458	13242	25381	1.5	7.3E-02	BE944661.2	EST_HUMAN	CMA-H1T0243-081109-037-d11 HT0243 Homo sapiens cDNA
458	13242	25382	1.8	7.3E-02	BE944661.2	EST_HUMAN	601658738R1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3986208 3'
669	13445	26085	3.9	7.3E-02	AE001780.1	NT	601658738R1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3986208 3'
1464	15570	26900	3.62	7.3E-02	AW600281.1	EST_HUMAN	Thermotoga maritima section 101 of 136 of the complete genome
1837	15580		12.41	7.3E-02	AL163302.2	NT	GMC-NN1004-130300-284-908 NN1004 Homo sapiens cDNA
6361	19131	32126	1.32	7.3E-02	AA770677.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C102
7368	20048	33128	2.58	7.3E-02	P05143	SWISSPROT	3244072.x1 Soares. fetal_liver_spleen. INFLS_S1 Homo sapiens cDNA clone IMAGE:451178 3' similar to
7368	20048	33129	2.88	7.3E-02	P05143	SWISSPROT	gb-L02426 26S PROTEASE SUBUNIT 4 (HUMAN);
8068	20762		1.16	7.3E-02	7652107	NT	PROLINE-RICH PROTEIN MP-3
9110	21798		1.14	7.3E-02	AB011090.1	NT	Homo sapiens KIAA0424 protein (KIAA0424), mRNA
11170	19131	32126	2.06	7.3E-02	AA770677.1	EST_HUMAN	Homo sapiens mRNA for KIAA0518 protein, partial cds
11844	24428		5.07	7.3E-02	11560136	NT	3244072.x1 Soares. fetal_liver_spleen. INFLS_S1 Homo sapiens cDNA clone IMAGE:451178 3' similar to
117	12937	25577	1	7.2E-02	AE000882.1	NT	gb-L02426 26S PROTEASE SUBUNIT 4 (HUMAN);
117	12937	25578	1	7.2E-02	AE000882.1	NT	Rattus norvegicus caspase recruitment domain protein 9 (LOC84171), mRNA
1458	14205	26860	2.72	7.2E-02	AL163301.2	NT	Methanobacterium thermoautotrophicum from bases 1029155 to 1036934 (section 88 of 148) of the complete genome
1458	14205	26861	2.72	7.2E-02	AL163301.2	NT	genome
2852	15267		2.83	7.2E-02	U14794.1	NT	Homo sapiens chromosome 21 segment HS21C101
3685	16815	26254	0.95	7.2E-02	AW268322.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
4312	17051	26076	4.65	7.2E-02	BF572007.1	EST_HUMAN	Human Immunodeficiency virus type 1 isolate 28 reverse transcriptase (pol) gene, internal fragment, partial cds
4044	17378	30010	0.7	7.2E-02	11496583	NT	U1-H-BW10-arg-g-06-QJ1.1 NCL CGAP Sub6 Homo sapiens cDNA clone IMAGE:273246 3'
							60207757F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4251950 5'
							Rhodomonas salina mitochondrion, complete genome

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5205	18013	30635	2.88	7.2E-02	U87531.1	NT	Methanococcus jannaschii section 73 of 160 of the complete genome
5208	18014	30636	10.1	7.2E-02	P11120	SWISSPROT	CALMODULIN
7068	18759	32824	1.58	7.2E-02	BF216086.1	EST_HUMAN	6011853558FT NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4085710 5'
7085	18776	32840	0.64	7.2E-02	AF221126.1	NT	Streptococcus pneumoniae putative response regulator (zmpR), putative histidine kinase (zmpS), and putative zinc metalloprotease (zmpB) genes, complete cds
7109	19797		1.5	7.2E-02	8934807	NT	Strongyloides purpuratus mitochondrion, complete genome
8087	20781	33910	0.8	7.2E-02	P06143	SWISSPROT	PROLINE-RICH PROTEIN MP-3
8087	20781	33911	0.8	7.2E-02	P06143	SWISSPROT	PROLINE-RICH PROTEIN MP-3
8962	21653		0.61	7.2E-02	Y17217.1	NT	Lactococcus lactis capE gene
9474	22127		0.49	7.2E-02	X16349.1	NT	Human gene for sex hormone-binding globulin (SHBG)
9511	22164	35348	2.32	7.2E-02	AV712452.1	EST_HUMAN	AV712452 DCA Homo sapiens cDNA clone DCAU/G01 5'
9659	22311	35509	3.8	7.2E-02	L14581.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
9814	22465	35607	0.93	7.2E-02	BF123368.1	EST_HUMAN	601765523FT NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4028438 5'
9903	22552	35747	2.53	7.2E-02	AW873187.1	EST_HUMAN	h24f11.x1 NCL_OGAP_Adr1 Homo sapiens cDNA clone IMAGE:3120333 3' similar to TR-Q8Z340 Q9Z340
10082	22740	35955	0.82	7.2E-02	AA788204.1	EST_HUMAN	ATYPICAL PKC SPECIFIC BINDING PROTEIN. ;
							cd82c07 at NCL_OGAP_G081 Homo sapiens cDNA clone IMAGE:1316844 3'
10250	22898	36108	1.93	7.2E-02	U82805.2	NT	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28S TS protein (XQ28ORF), and biglycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds
10372	23018	36234	5.54	7.2E-02	BE95003.1	EST_HUMAN	601343928FT NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3685951 5'
10395	23041		3.68	7.2E-02	BE539214.1	EST_HUMAN	601065194FT NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451559 5'
10629	23165	36381	0.48	7.2E-02	AA708897.1	EST_HUMAN	z28n05.s1 Soares_feld_liver_spleen_1nFLS_S1 Homo sapiens cDNA clone IMAGE:451641 3'
10630	23512	36763	3.3	7.2E-02	AF046874.1	NT	Rattus norvegicus bHLH transcription factor Mafk1 (Mafk1) gene, complete cds
11849	24433	37776	1.34	7.2E-02	AY006090.1	NT	Homo sapiens putative transmembrane protein dedh-1 mRNA, complete cds
12035	24590	31113	1.67	7.2E-02	AA776908.1	EST_HUMAN	af81404.r1 Soares_NIH-MPU_S1 Homo sapiens cDNA clone IMAGE:1048398 5'
12089	24593		4.45	7.2E-02	AJ230796.1	EST_HUMAN	AJ230796 Homo sapiens library (Seraid P) Homo sapiens cDNA clone IMAGE:1048398 5'
12182	24654		1.73	7.2E-02	U82828.1	NT	Homo sapiens ataxia telangiectasia (ATM) gene, complete cds
12198	25185		8.19	7.2E-02	AW900982.1	EST_HUMAN	GMA-NN1008-200300-118-c11 NN1008 Homo sapiens cDNA
12569	25362		3.62	7.2E-02	AF020439.1	NT	Homo sapiens ATP-citrate lyase gene, intron 3
1997	14634	27344	2.01	7.1E-02	L02290.1	NT	Human immunodeficiency virus type 1 (Q9) proviral structural capsid protein (gag) gene, partial cds
2290	15016	27751	5.07	7.1E-02	BF208802.1	EST_HUMAN	601872281FT NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4052881 5'
7807	20502	33622	0.77	7.1E-02	AI125294.1	EST_HUMAN	q882a10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1736922 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11822	24483		6.41	7.1E-02	BE304784.1	EST_HUMAN	601143074FT NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051234.5
515	13289	25931	1	7.0E-02	Q07092	SWISSPROT	COLLAGEN ALPHA 1(XV) CHAIN PRECURSOR
1498	14233		1.27	7.0E-02	X08677.1	NT	Martellia Mout-1 gene
1766	14498	27199	1.08	7.0E-02	AA056343.1	EST_HUMAN	268904.s1 Strabegene clone (#637204) Homo sapiens cDNA clone IMAGE:509560.3
3027	15793	28440	2.1	7.0E-02	AW138152.1	EST_HUMAN	U1H-B11-50y-c-07-0-U1.s1 NCL_GCAP_503 Homo sapiens cDNA clone IMAGE:2718020.3
3878	18828	29296	0.74	7.0E-02	AA816438.1	EST_HUMAN	af55a12.s1 Soares, testis_NHT Homo sapiens cDNA clone 1375978.3 similar to gb-K03002.605
4119	18861		1.28	7.0E-02	AW792962.1	EST_HUMAN	RIBOSOMAL PROTEIN L32 (HUMAN);
4189	18930	29560	1.06	7.0E-02	AF077821.1	NT	CAMP-UM0001-060300-270-s12 UM0001 Homo sapiens cDNA
4877	17604	30227	7.24	7.0E-02	BF351987.1	EST_HUMAN	Canis familiaris inducible nitric oxide synthase mRNA, complete cds
5293	18098		0.57	7.0E-02	Y08143.2	NT	601816291FT NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050071.5
7300	19983	33059	1.29	7.0E-02	AV089293.1	EST_HUMAN	Lumbricus rubellus mRNA for cyclophilin B
7506	20177	33271	0.84	7.0E-02	Y10187.1	NT	AV089285 GKC Homo sapiens cDNA clone GKCCAE06.5
8098	21698	34836	1.26	7.0E-02	9828113	NT	Gallus gallus mRNA for partial actinin, XL spliced variant (acc gene)
9497	22160	35331	1.24	7.0E-02	K02901.1	NT	African swine fever virus, complete genome
9852	22502	35702	0.51	7.0E-02	U27296.1	NT	Rat Ig gamma1 epsilon H-chain gene C-region, 3' end
11345	24035	37338	4.86	7.0E-02	AA724295.1	EST_HUMAN	Human myosin binding protein H (MyBP-H) gene, complete cds
501	13285	25917	4.3	6.9E-02	AL163210.2	NT	el09a05.s1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1327164.3 similar to gb-L14837
501	13285	25918	4.3	6.9E-02	AL163210.2	NT	TIGHT JUNCTION PROTEIN ZO-1 (HUMAN);
							Homo sapiens chromosome 21 segment HS21C010
							Homo sapiens chromosome 21 segment HS21C010
1310	14058		1.2	6.9E-02	4507968	NT	Homo sapiens regulator of Gz-selective protein signaling (ZGAP1) mRNA, and translated products
3773	16525	29163	1.41	6.9E-02	Q06384	SWISSPROT	26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7)
3773	16525	29164	1.41	6.9E-02	Q06384	SWISSPROT	26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7)
							Enterococcus faecium cysteine aminopeptidase (papC) gene, partial cds; phospho-beta-glucosidase BglB (bglB), beta-glucoside specific transport protein (bglS), transcription antiterminator (bglR), enterocin B precursor (entB), enterocin B immunity protease
5113	17831	30446	0.89	6.9E-02	AF121254.1	NT	601192383FT NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3530283.5
5127	17845	30462	1.25	6.9E-02	BE264003.1	EST_HUMAN	Canine distemper virus strain A7517, complete genome
7516	20187		0.61	6.9E-02	AF164967.1	NT	Human calmodulin (CALM1) gene, exons 2,3,4,5 and 6, and complete cds
7061	20846		1.12	6.9E-02	U12022.1	NT	601340061FT NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683030.5
8451	21143	34282	1.01	6.9E-02	BE567435.1	EST_HUMAN	601340061FT NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683030.5
8451	21143	34283	1.01	6.9E-02	BE567435.1	EST_HUMAN	Barbatte duck parvovirus REP protein (rep) and three capsid protein VP (vp) genes, complete cds
9018	21708	34860	0.7	6.9E-02	U22987.1	NT	XJievis XFD2 mRNA for fork head protein
12065	24580		1.82	6.9E-02	X74315.1	NT	

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12232	24695		1.69	6.8E-02	P44621	SWISSPROT	PROTEIN TRANSPORT PROTEIN HOF6 HOMOLOG
12447	24617		1.46	6.8E-02	AF189593.1	NT	Homo sapiens membrane-bound aminopeptidase P (XOPEP2) gene, complete cds
1875	14613	27321	1.56	6.8E-02	AA498750.1	EST_HUMAN	ae30f02.1 Gessler W/lms tumor Homo sapiens cDNA clone IMAGE:807339 5' similar to gb:M22382
1875	14613	27322	1.56	6.8E-02	AA498750.1	EST_HUMAN	ae30f02.1 Gessler W/lms tumor Homo sapiens cDNA clone IMAGE:807339 5' similar to gb:M22382
1900	14637	27346	3.77	6.8E-02	AF156873.1	NT	MITOCHONDRIAL MATRIX PROTEIN P1 PRECURSOR (HUMAN);
3097	15882	28503	1.19	6.8E-02	AA781996.1	EST_HUMAN	af75a06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1376628 3'
3097	15882	28504	1.19	6.8E-02	AA781996.1	EST_HUMAN	af75a06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1376628 3'
3097	15882	28505	1.19	6.8E-02	AA781996.1	EST_HUMAN	af75a06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1376628 3'
4510	17251		0.86	6.8E-02	BE141076.1	EST_HUMAN	MRO-HT0099-071099-001-c08 HT0099 Homo sapiens cDNA
6526	19291		0.6	6.8E-02	P20792	SWISSPROT	CELL SURFACE RECEPTOR DAF-1 PRECURSOR
6789	19490		1.06	6.8E-02	BE061890.1	EST_HUMAN	RC1-BT0264-090300-017-409 BT0264 Homo sapiens cDNA
7180	19600	32689	8.73	6.8E-02	AL103288.2	NT	Homo sapiens chromosome 21 segment HS21C068
7584	20762	33358	0.83	6.8E-02	U108196.1	NT	Dictpyellum discoideum myosin heavy chain kinase A (MHCK A) mRNA, complete cds
8186	20880	34017	6.01	6.8E-02	AJ246287.1	NT	Pyrococcus abyssi complete genome; segment 516
8186	20880	34018	5.01	6.8E-02	AJ246287.1	NT	Pyrococcus abyssi complete genome; segment 516
11673	25379		2.3	6.8E-02	T03214.1	EST_HUMAN	FB4A8 Fetal brain, Strangere Homo sapiens cDNA clone FB4A8 3' end similar to LINE-1
12001	24537		2.85	6.8E-02	AA7768014.1	EST_HUMAN	af77605.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320705 3'
12551	24688		1.65	6.8E-02	AW975839.1	EST_HUMAN	EST787949 MAGE resequencing, MAGN Homo sapiens cDNA
12613	24920		3.06	6.8E-02	9910585	NT	Mus musculus testis TGF-beta binding protein (TGFb) mRNA
1519	14266		1.63	6.7E-02	AF115538.1	NT	Oncorhynchus mykiss TAP1 protein (OmyTAP1) mRNA, OmyTAP1/101 allele, complete cds
1893	14623	27333	2.27	6.7E-02	AJ220285.1	EST_HUMAN	ag78e04.s1 Soares_NHL_T GBC_S1 Homo sapiens cDNA clone IMAGE:1841408 3'
3706	16499	29097	4.52	6.7E-02	P17278	SWISSPROT	HOMEOBOX PROTEIN HOXD-4 (HOXD-4)
7749	20446	33567	0.56	6.7E-02	X62965.1	NT	H. sapiens DNA for cAMP phosphodiesterase (exons 4-22)
7749	20446	33568	0.55	6.7E-02	X62965.1	NT	H. sapiens DNA for cAMP phosphodiesterase (exons 4-22)
8337	21030	34107	0.47	6.7E-02	AW082668.1	EST_HUMAN	xb01tct1.s1 Soares_NHL_T GBC_S1 Homo sapiens cDNA clone IMAGE:2590788 3'
9500	22153	35333	0.69	6.7E-02	AW137356.1	EST_HUMAN	U1H-BJ1-acc-g-01-QJL1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715493 3'
9500	22153	35334	0.69	6.7E-02	AW137356.1	EST_HUMAN	U1H-BJ1-acc-g-01-QJL1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715493 3'
1348	14098	28771	1.07	6.6E-02	AF246118.1	NT	Drosophila melanogaster cadherin mRNA, complete cds
2180	14909	27841	3.31	6.6E-02	AJ290241.1	NT	Mus musculus Capn12 gene for calpain 12, exons 1-21, three alternative transcripts
3456	18212	28865	10.57	6.6E-02	RG4306.1	EST_HUMAN	M18b10.s1 Soares placenta Nb2-F Homo sapiens cDNA clone IMAGE:138679 3'
3471	15227	28881	2.89	6.6E-02		NT	Homo sapiens mesothelin (MSLN), transcript variant 1, mRNA
3471	15227	28882	2.59	6.6E-02	7108357	NT	Homo sapiens mesothelin (MSLN), transcript variant 1, mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4080	18805	29436	1.29	6.8E-02	AF260225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
4921	17649	30281	7.03	6.8E-02	Q61703	SWISSPROT	INTER-ALPHA-TRYPsin INHIBITOR HEAVY CHAIN H2 PRECURSOR (ITI HEAVY CHAIN H2)
4921	17649	30282	7.03	6.8E-02	Q61703	SWISSPROT	INTER-ALPHA-TRYPsin INHIBITOR HEAVY CHAIN H2 PRECURSOR (ITI HEAVY CHAIN H2)
6489	18256	32258	3.44	6.8E-02	X00411.1	NT	P. vulgaris mRNA for chalcone synthase
6701	18283	32286	0.96	6.8E-02	P25159	SWISSPROT	MATERIAL EFFECT PROTEIN STAUFIN
6701	18283	32287	0.96	6.8E-02	P25159	SWISSPROT	MATERIAL EFFECT PROTEIN STAUFIN
7847	20542	33670	1.81	6.8E-02	AF052572.1	NT	Homo sapiens chemokine receptor CXCR4 gene, promoter region and complete cds
8372	21065	34206	0.84	6.8E-02	AF060553.1	NT	Dicystosellum discoidum deitin (dar) gene, complete cds
8678	21370		0.53	6.8E-02	Q60673	SWISSPROT	DNA POLYMERASE ZETA CATALYTIC SUBUNIT (HREV3)
8819	21511	34654	0.58	6.8E-02	9029198	NT	Human respiratory syncytial virus, complete genome
8819	21511	34655	0.58	6.8E-02	9029198	NT	Human respiratory syncytial virus, complete genome
9851	22501	35701	0.65	6.8E-02	AI458752.1	EST_HUMAN	997908.X1 NC1 CGAP Lu24 Homo sapiens cDNA clone IMAGE:2149468 3'
9887	22635	36846	1.66	6.8E-02	Y07848.1	NT	Homo sapiens EWS, gap22, m22 and ham22 genes
10022	22670		0.03	6.8E-02	11430559	NT	Homo sapiens vinculin (VCL), mRNA
10883	23593	36811	6.88	6.8E-02	BF374248.1	EST_HUMAN	MR1-SN0094-010800-008-412 SN0094 Homo sapiens cDNA
11867	24451	37763	1.46	6.8E-02	AF052572.1	NT	Homo sapiens chemokine receptor CXCR4 gene, promoter region and complete cds
12442	24812		2.06	6.8E-02	963799.1	NT	Mus musculus DIPB gene (Dipb), mRNA
12740	25008		1.38	6.8E-02	AF167430.1	NT	Rattus norvegicus cytochrome P450 2E1 (CYP2E1) gene, 5' flanking region
968	13349	25977	2.49	6.8E-02	BF027638.1	EST_HUMAN	601871046F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954178 5'
968	13732	26398	1.32	6.8E-02	7706008	NT	Homo sapiens E2f-like protein (LOC51270), mRNA
1370	14118	26763	3.08	6.8E-02	U47624.1	NT	Xenopus laevis alpha(E)-catenin mRNA, complete cds
1728	14470	27160	1.77	6.8E-02	AE000784.1	NT	Aquifex acidicus section 86 of 109 of the complete genome
5471	18270	31162	2.03	6.8E-02	AA443991.1	EST_HUMAN	z46h12.a1 Scores over tumor NIHOT Homo sapiens cDNA clone IMAGE:766743 3' similar to gp-M26038
6877	17653	30549	0.95	6.8E-02	U22681.1	NT	HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DR-3 BETA CHAIN (HUMAN);
9842	22463	35693	0.55	6.8E-02	BE983200.2	EST_HUMAN	Azobacter vinelandii ATCC 50426 negative regulator MucB (mucB) gene, partial cds
9842	22463	35694	0.55	6.8E-02	BE983200.2	EST_HUMAN	601659817R1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3865637 3'
10363	23010	36226	0.48	6.8E-02	BF106300.1	EST_HUMAN	601659817R1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3865637 3'
10363	23232	36496	5.56	6.8E-02	AA166548.1	EST_HUMAN	601823511F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4043138 5'
11894	24463		3.73	6.8E-02	M21468.1	NT	z323905.a1 Scores NIHMPu_S1 Homo sapiens cDNA clone IMAGE:666144 3'
12240	24691		4.66	6.8E-02	AF102393.1	NT	Rabbit microsomal epoxide hydrolase
561	13343	25970	2.09	6.8E-02	X94549.1	NT	Nectria haematococca Uthras related protein 2 (KRP-2) gene, complete cds
3014	15780	28429	0.96	6.8E-02		NT	A. cerevisiae precursor of perlecan-chondroitin-protein (PCP) gene
4839	15780	28429	1.18	6.8E-02	6996623	NT	Mus musculus histone deacetylase 5 (Hdac5), mRNA

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5393	18186	30850	1.87	6.4E-02	AI191856.1	EST_HUMAN	cdp7b01.x1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1738249 3' similar to contains LTR8.03
5791	18582	31509	0.85	6.4E-02	7305186	NT	mus musculus IFN-response element binding factor 1 (IREBF-1), mRNA
8022	18902	31763	4.21	6.4E-02	AF082733.1	NT	Heterodera glycines beta-1, 4-endo-glucanase-1 precursor (HG-ang-1) gene, complete cds
8022	18902	31764	4.21	6.4E-02	AF082733.1	NT	Heterodera glycines beta-1, 4-endo-glucanase-1 precursor (HG-ang-1) gene, complete cds
8308	19080	32065	0.92	6.4E-02	AF072886.1	EST_HUMAN	wt7312.x1 Soares, Drosophila melanogaster, NHT Homo sapiens cDNA clone IMAGE:2345790 3'
8719	19834	32877	6.43	6.4E-02	BE974448.1	EST_HUMAN	601690429R2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3956503 3'
7300	20041	33119	0.84	6.4E-02	AL102757.2	NT	Neisseria meningitidis serogroup A strain Z2491 complete genome, segment 87
8234	20828		2.91	6.4E-02	6753323	NT	Mus musculus chaperonin subunit 6a (zeta) (Cct6a), mRNA
8563	21255	34392	3.42	6.4E-02	AA003305.1	EST_HUMAN	K1410.seq, F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9025	21715	34888	0.77	6.4E-02	AF160195.1	EST_HUMAN	AF150185 Human mRNA from c84+ stem cells Homo sapiens cDNA clone CBDAIA10
9496	22139		0.95	6.4E-02	BE834063.1	EST_HUMAN	RC1-OT0083-150000-014-g05 OT0083 Homo sapiens cDNA
9617	22270	35457	1.73	6.4E-02	AB011128.1	NT	Homo sapiens mRNA for KIAA0554 protein, partial cds
10161	22808	36027	0.59	6.4E-02	AF087150.1	NT	Homo sapiens DNA topoisomerase II beta (TOP2B) gene, exons 16, 17, and 18
10161	22808	36028	0.59	6.4E-02	AF087150.1	NT	Homo sapiens DNA topoisomerase II beta (TOP2B) gene, exons 16, 17, and 18
11709	24304	37629	1.47	6.4E-02	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RefSeq gene, and acylphosphate transporter (NPTS) gene, complete cds
11709	24304	37630	1.47	6.4E-02	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RefSeq gene, and acylphosphate transporter (NPTS) gene, complete cds
12141	25288		2.7	6.4E-02	AF107890.1	NT	Homo sapiens myosin 5B (MYO5B) gene, partial cds
12188	24650	31085	2.47	6.4E-02	AJ277174.1	NT	Drosophila melanogaster mRNA for mod(mdg4)51.4 protein
1740	14491	27191	2.57	6.3E-02	AF109005.1	NT	Mus musculus major histocompatibility locus class III regions Hec701 gene, partial cds; smRNP, G7A, NG23,
3690	18344		2.58	6.3E-02	AF109005.1	NT	Mus musculus, CLCP, NG24, NG25, and NG26 genes, complete cds; and unknown genes
6045	18825	31788	1.18	6.3E-02	BF210736.1	EST_HUMAN	HEAT SHOCK PROTEIN 70 HOMOLOG
7142	19829		0.82	6.3E-02	X97599.1	NT	601873316F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4087489 5'
9191	21861	35028	1.04	6.3E-02	AJ243916.1	NT	HLA-DQA1 gene encoding L1 autoantigen
9913	22502	35758	2.64	6.3E-02	AB010162.1	NT	Drosophila melanogaster Dorsin gene, exons 1-3
10171	22819		0.85	6.3E-02	AF098070.1	EST_HUMAN	Hepatitis G virus RNA for polyprotein (NS5A region), partial cds, strain: CMR-152
10615	18825	31786	2.98	6.3E-02	BF210736.1	EST_HUMAN	AV088070 GK/G Homo sapiens cDNA clone GKCAHE01 5'
4224	18965	28590	2.81	6.2E-02	AL101572.2	NT	601873316F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4087489 5'
							Arabidopsis thaliana DNA chromosome 4, contig fragment No. 88

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4304	17043		1.02	0.2E-02	AF271235.1	NT	Rattus norvegicus differentiation-associated Na-dependent inorganic phosphate cotransporter (DNPI) mRNA, complete cds
4542	17277		0.31	0.2E-02	Q82191	SWISSPROT	52 KD RO PROTEIN (SJOGEREN SYNDROME TYPE A ANTIGEN (SS-A)) (RQ(SS-A)) (RQ82)
6898	19815	32659	0.65	0.2E-02	D46830.1	NT	Spitilins platelet DNA for adenylate cyclase, complete cds
7527	20188	33292	1.03	0.2E-02	L41463.1	NT	Rattus norvegicus PKC binding protein and substrate mRNA, complete cds
8846	25429		0.6	0.2E-02	M61101.1	NT	Porcine group C rotavirus (strain Cowden) outer membrane protein (VP7) mRNA, complete cds
9243	21922	35092	0.52	0.2E-02	AA178450.1	EST_HUMAN	af20403.s1 Soares, total, fetus, Nb2HFE, sw Homo sapiens cDNA clone IMAGE:1032178 3'
9390	22042	35214	1.85	0.2E-02	B67788	NT	Mus musculus stromal cell derived factor receptor 2 (Sdf2r), mRNA
11095	23765	37039	1.96	0.2E-02	AF217490.1	NT	Homo sapiens fragile 160 odds reductase (FOR) gene, exons 8, 9, and partial cds
11320	24011	37315	1.53	0.2E-02	AJ242735.1	NT	Meioblastum anisopiles mRNA for Chymotrypsin (chyl) gene
11805	24449	37791	1.74	0.2E-02	AF200339.1	NT	Rattus norvegicus UDP-glucose glycoprotein:glucosyltransferase precursor (Ugat) mRNA, complete cds
11989	25405		13.39	0.2E-02	AE000750.1	NT	Aquifex aeolicus section 82 of 109 of the complete genome
12394	24782	31037	2.5	0.2E-02	BF112039.1	EST_HUMAN	787M08.x1 Soares, NSF, FB, GW, OT, PA, P, S1 Homo sapiens cDNA clone IMAGE:3523815 3' similar to
249	13059	25697	5.59	0.1E-02	D16471.1	NT	Human mRNA, Xq terminal portion
3972	16721		2.29	0.1E-02	U73325.1	NT	Arabidopsis thaliana K+ inward rectifying channel protein (AKCT) gene, complete cds
6023	19803		1.4	0.1E-02	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
8161	20955	33988	3.75	0.1E-02	X98298.1	NT	H sapiens mRNA for BHLH DNA binding protein
8599	21251	34388	0.57	0.1E-02	BE971833.1	EST_HUMAN	601051068R1 NIH_MGC, S1 Homo sapiens cDNA clone IMAGE:3634604 3'
8599	21251	34389	0.57	0.1E-02	BE971833.1	EST_HUMAN	601051068R1 NIH_MGC, S1 Homo sapiens cDNA clone IMAGE:3634604 3'
10630	23223	36590	4.91	0.1E-02	BE170643.1	EST_HUMAN	IL3-HT0618-110500-139-C08 HT0618 Homo sapiens cDNA
11862	24446	37787	1.27	0.1E-02	AB026333.1	NT	Epilobium burgeri mRNA for RNA polymerase III largest subunit, partial cds
11945	25323		2.27	0.1E-02	X70698.1	NT	Sjoporum mRNA for serine-enzyme
12633	24633		5.61	0.1E-02	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
98	12922	25559	0.76	0.0E-02	AA188730.1	EST_HUMAN	zp76c04.t1 Stragene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:626310 5'
98	12922	25560	0.76	0.0E-02	AA188730.1	EST_HUMAN	zp76c04.t1 Stragene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:626310 5'
1239	13988	26955	1.54	0.0E-02	AE001777.1	NT	Thermococcus maritima section 89 of 136 of the complete genome
2682	15391	28130	1.09	0.0E-02	AW98848.1	EST_HUMAN	EST380024 IMAGE: sequences, MAGI Homo sapiens cDNA
							Mesocricetus corti mitochondrial DNA, NADH dehydrogenase subunit 4, rRNA-Gn, rRNA-Phe, rRNA-Met, ATPase subunit 6, and NADH dehydrogenase subunit 2
2775	15480		1.02	0.0E-02	AB031299.1	NT	ATPase subunit 6, and NADH dehydrogenase subunit 2
2937	12922	25559	0.9	0.0E-02	AA188730.1	EST_HUMAN	zp76c04.t1 Stragene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:626310 5'
2937	12922	25560	0.9	0.0E-02	AA188730.1	EST_HUMAN	zp76c04.t1 Stragene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:626310 5'

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3223	15986	28639	1.48	6.0E-02	AA372376.1	EST_HUMAN	EST184268 Colon adenocarcinoma IV Homo sapiens cDNA 5' end similar to tissue-specific protein
3223	15986	28640	1.48	6.0E-02	AA372376.1	EST_HUMAN	EST184268 Colon adenocarcinoma IV Homo sapiens cDNA 5' end similar to tissue-specific protein
3625	16378		0.72	6.0E-02	BE064443.2	EST_HUMAN	801658150R1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3878060 3'
5037	17756	30370	0.66	6.0E-02	AF148738.1	NT	Rattus norvegicus testis specific protein mRNA, complete cds
5313	18117		0.94	6.0E-02	AW370211.1	EST_HUMAN	RC3-BT0263-011198-013-004 BT0263 Homo sapiens cDNA
6122	18900	31868	0.77	6.0E-02	A1807837.1	EST_HUMAN	wf48r05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358873 3' similar to contains L1/L1 L1 L1 repetitive element;
6891	17967	30524	3.07	6.0E-02	5174698	NT	Homo sapiens stimulated trans-acting factor (50 kDa) (STAF50) mRNA
6891	17967	30526	3.07	6.0E-02	5174698	NT	Homo sapiens stimulated trans-acting factor (50 kDa) (STAF50) mRNA
7088	19177	32842	2.33	6.0E-02	BF382340.1	EST_HUMAN	801818274F2 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:4049286 5'
7580	20249	33355	2.13	6.0E-02	A1204275.1	EST_HUMAN	qf58a08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1764198 3'
8321	21014		0.54	6.0E-02	11498469	NT	Recitromonas americana mitochondrion, complete genome
9172	21842	35007	1.17	6.0E-02	A1623167.1	EST_HUMAN	1a78a06.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2237882 3'
9172	21842	35008	1.17	6.0E-02	A1623167.1	EST_HUMAN	1a78a06.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2237882 3'
9308	21973	35147	1.86	6.0E-02	A1245395.1	NT	Adipenser beeri partial IGLV gene for Immunoglobulin light chain variable region, exons 1-2
9308	21973	35148	1.86	6.0E-02	A1245395.1	NT	Adipenser beeri partial IGLV gene for Immunoglobulin light chain variable region, exons 1-2
9805	22456	35659	0.5	6.0E-02	AA306797.1	EST_HUMAN	EST180654 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to heat shock protein 1, 60 kDa-like
9805	22456	35660	0.5	6.0E-02	AA306797.1	EST_HUMAN	EST180654 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to heat shock protein 1, 60 kDa-like
11308	23065		1.80	6.0E-02	AA128396.1	EST_HUMAN	zn87c08.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565109 5' similar to gb:X08181.80S RIBOSOMAL PROTEIN L31 (HUMAN);
12187	24659	31064	2.18	6.0E-02	11431702	NT	Homo sapiens DNA-dependent protein kinase catalytic subunit-interacting protein 2 (KIP2), mRNA
12564	24884		2.31	6.0E-02	A1809273.1	EST_HUMAN	wf68h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360885 3' similar to TR:O60288
223	13035	28671	3.87	5.9E-02	AW384719.1	EST_HUMAN	O60288 KIAA0651 PROTEIN ;
2882	15748	28308	2.86	5.9E-02	AF190289.1	NT	RC1-DT0001-280100-012-e10 DT0001 Homo sapiens cDNA
4817	17648	30173	1	5.9E-02	AF006304.1	NT	Mus musculus p53 tumor suppressor gene, exon 10 and 11, partial cds, alternatively spliced
							Saccharomyces cerevisiae protein tyrosine phosphatase (PTP3) gene, complete cds
5123	17841	30457	0.73	5.9E-02	AW028748.1	EST_HUMAN	wf34e02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:2831450 3' similar to TR:O65386
5123	17841	30458	0.73	5.9E-02	AW028748.1	EST_HUMAN	O65386 F12F1.20 PROTEIN ;
5515	21207	34330	1.88	5.9E-02	9055249	NT	wf34e02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:2831450 3' similar to TR:O65386
9351	20422		0.8	5.9E-02	BF242748.1	EST_HUMAN	O65386 F12F1.20 PROTEIN ;
							wf34e02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:2831450 3' similar to TR:O65386
							Mus musculus fructose related homeobox 5 (Drosophila) (frh5), mRNA
							801877809F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:4105894 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10885	23378		3.2	5.9E-02	6978970	NT	Mus musculus follistatin-like (Foll), mRNA
10944	23623	30872	1.44	5.9E-02	11433350	NT	Homo sapiens nrlin (LOC51198), mRNA
11544	24144		1.59	5.9E-02	AJ240733.1	NT	Gallus gallus HKG9 leukemia junction
912	13679		5.18	5.9E-02	D98110.1	NT	Thiodiculus ferrooxidans merC, merA genes and URF-1
2864	16632		0.96	5.9E-02	AJ228621.1	NT	Populus trichocarpa COX6OMT1 gene, exon 1 to exon 5
4322	17061	20687	4.9	5.9E-02	AW061927.1	EST_HUMAN	w24q02.x1 NCI_CGAP_K611 Homo sapiens cDNA clone IMAGE:2544578.3
4322	17061	20688	4.9	5.9E-02	AW051927.1	EST_HUMAN	w24q02.x1 NCI_CGAP_K611 Homo sapiens cDNA clone IMAGE:2544578.3
4510	17245	29879	4.95	5.9E-02	AJ247505.1	EST_HUMAN	q15901.x1 Source, fetal_liver, spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:1848697.3 similar to gb:M15142 COAGULATION FACTOR XI PRECURSOR (HUMAN);
4510	17245	29880	4.95	5.9E-02	AJ247505.1	EST_HUMAN	q15901.x1 Source, fetal_liver, spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:1848697.3 similar to gb:M15142 COAGULATION FACTOR XI PRECURSOR (HUMAN);
4535	17270		2.82	5.9E-02	AF066284.1	NT	Gallus gallus tyrosine kinase JAK1 (JAK1) mRNA, complete cds
7578	20247	33352	2.96	5.9E-02	M69150.1	NT	Human polymorphic microsatellite DNA
7578	20247	33353	2.96	5.9E-02	M69150.1	NT	Human polymorphic microsatellite DNA
8665	21257	34394	0.97	5.9E-02	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
12084	24500		1.79	5.9E-02	AF220177.1	NT	Drosophila melanogaster male fruitless type-A (fru) mRNA, complete cds
12373	25398		7.06	5.9E-02	AA004296.1	EST_HUMAN	nc75611.x1 NCI_CGAP_AA1 Homo sapiens cDNA clone IMAGE:1112884.3
3053	15819	28463	1.39	5.7E-02	A081844.1	EST_HUMAN	out63605.x1 NCI_CGAP_B42 Homo sapiens cDNA clone IMAGE:1632466.3 similar to WP-C37A2.2
3068	15834	28478	1.29	5.7E-02	AF119117.1	NT	CE08611.1
3604	18448		0.97	5.7E-02	AF001292.1	NT	Homo sapiens dopamine transporter (SLC6A3) gene, complete cds
3783	18535	29173	2.45	5.7E-02	AW060791.1	EST_HUMAN	Chromosome 1 human fibrinogen chain VIIA, 1 (c17-7A.1), globin B, 1 (c17-9.1), globin II-beta (c17-2beta), non-functional globin XII (c17-19T), globin XII (c17-12) and globin XI (c17-11) genes, complete cds
4637	17371		1.01	5.7E-02	NG00096.1	NT	EST1378695 MAOE resequencing, MAGI Homo sapiens cDNA
7438	20115	33203	0.96	5.7E-02	D78003.1	NT	Bos taurus lysozyme gene (cow 3), complete cds
7438	20115	33204	0.96	5.7E-02	D78003.1	NT	Xenopus laevis mRNA for fourth component of complement, complete cds
9055	22749	33860	1.42	5.7E-02	AJ260690.1	NT	Xenopus laevis mRNA for fourth component of complement, complete cds
9760	22810		0.94	5.7E-02	0681280	NT	Rattus norvegicus mRNA for potassium channel, alpha subunit (Kv2.2 gene)
11143	23810	37090	4.42	5.7E-02	AJ762885.1	EST_HUMAN	Mus musculus ecd2 oncogene (Ecd2), mRNA
11143	23810	37091	4.42	5.7E-02	AJ762885.1	EST_HUMAN	ent18609.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_ent18609 random
11321	24612		1.69	5.7E-02	AL163303.2	NT	ent18609.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_ent18609 random
12285	26213		7.24	5.7E-02	D90320.1	NT	Homo sapiens chromosome 21 segment HS21C103
							Pig DNA for SPAL-2, complete cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12515	25283		3.18	5.7E-02	AF217490.1	NT	Homo sapiens fragile 180 codon reductase (FOR) gene, exons 6, 9, and partial cds
12690	25387		2.61	5.7E-02	AF281280.1	NT	Pan troglodytes apolipoprotein-E gene, complete cds
1518	14285	26851	1.57	5.9E-02	AF094455.1	NT	Hydroxycylo retinoid ribosomal protein L16 (p16) gene, intron; chloroplast gene for chloroplast product
4595	17330	29857	1.12	5.9E-02	AB013100.1	NT	Lycopodium esculentum LE-ACS9 mRNA for 1-aminocyclopropane-1-carboxylate synthase, complete cds
4648	17382	30014	1.46	5.9E-02	AA230598.1	EST_HUMAN	z445c01.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:700416.3
6962	19327	32334	6.57	5.9E-02	AW172708.1	EST_HUMAN	x02c10.x1 NCI CGAP U12 Homo sapiens cDNA clone IMAGE:2656050.3 similar to TR:094979 094979 KIAA0905 PROTEIN;
6791	19535	32593	1.25	5.9E-02	AA099182.1	EST_HUMAN	cd471f12.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1371118.3 similar to contains Alu repetitive element; contains element L1 repetitive element;
7061	19742	32804	3.05	5.9E-02	BE098001.1	EST_HUMAN	QV0-BN0147-290400-214-g07 BN0147 Homo sapiens cDNA
7063	19754	32819	0.60	5.9E-02	AB83738.1	EST_HUMAN	w34f05.x1 NCI CGAP Bm63 Homo sapiens cDNA clone IMAGE:2550980.3 similar to gp:208408 RAF
7725	20388	33502	0.66	5.9E-02	AF183583.1	EST_HUMAN	PROTO-ONCOGENE SERINE/THREONINE-PROTEIN KINASE (HUMAN);
8701	21393	34538	2.88	5.9E-02	BE542963.1	EST_HUMAN	q684g11.x1 Source: testis_NHT Homo sapiens cDNA clone IMAGE:1734308.3
8701	21393	34540	2.88	5.9E-02	BE542963.1	EST_HUMAN	601067158F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453279.5
9712	22383	35581	1.09	5.9E-02	AA482864.1	EST_HUMAN	601067158F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453279.5
11566	24155		2.35	5.9E-02	AF260225.1	NT	r14907.s1 NCI CGAP Av1 Homo sapiens cDNA clone IMAGE:923245 similar to TR:G769899 G769899 LAMINA ASSOCIATED POLYPEPTIDE 1C;
2860	13370	28108	0.8	5.9E-02	X97869.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
3209	15972	28625	3.93	5.9E-02	9755501	NT	H sapiens gene encoding Lx autoantigen
4191	18932	29581	1	5.9E-02	L41581.1	NT	Mus musculus SH3 domain protein 1B (SH3D1B), mRNA
5573	19370	31281	3.05	5.9E-02	Q01174	SWISSPROT	Gallid herpesvirus mRNA fragment
5639	19370	31281	3.98	5.9E-02	Q01174	SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE
7277	19681	33038	2	5.9E-02	6756802	NT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE
8019	20714	33845	0.63	5.9E-02	AF170911.1	NT	Mus musculus titulin 1 (Tut1), mRNA
8019	20714	33846	0.63	5.9E-02	AF170911.1	NT	Homo sapiens sodium-dependent vitamin C transporter 1 (SVCT1), mRNA, complete cds
9665	22208	35392	0.6	5.9E-02	10947034	NT	Homo sapiens sodium-dependent vitamin C transporter 1 (SVCT1), mRNA
9665	22208	35393	0.6	5.9E-02	10947034	NT	Homo sapiens eIF4E-transporter (4E-T), mRNA
9660	22302	35497	1.32	5.9E-02	U69492.1	NT	Homo sapiens eIF4E-transporter (4E-T), mRNA
10843	23622	36871	7.28	5.9E-02	U09771.1	NT	Mus musculus second IL11 receptor alpha chain (IL11R2) gene, exons 1 and 2 Citrobacter freundii DSM 30040 cyclopropane fatty acid synthase (cfa) gene, partial cds, diffractocyclone kinase (dhk), glycerol dehydrogenase (dhad), transcriptional activator (dhaR), 1,3-propanediol dehydrogenase (dhaT), glycerol dehydratase (dhaB)>

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12797	25349	30604	1.49	5.5E-02	11421332	NT	Homo sapiens hypothetical protein SRP-b2 (SRP-b2), mRNA
3019	15785		0.91	5.4E-02	AJ27468.1	NT	Oryza sativa hdb3-1 gene for putative Bowman Birk trypsin inhibitor
3416	17885		5.78	5.4E-02	BE073468.1	EST_HUMAN	RCS-ST0656-140700-021-008 BT0656 Homo sapiens cDNA
3801	18841	29281	0.76	5.4E-02	U65906.1	NT	Hindu medicinalis SNAP-25 homolog mRNA, complete cds
8024	20719		0.88	5.4E-02	Z99110.1	NT	Bacillus subtilis complete genome (section 13 of 21); from Z865281 to 2813730
8969	21659	34809	0.55	5.4E-02	AF260225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
10637	23234	36467	1.62	5.4E-02	AJ120689.1	EST_HUMAN	AUT20889 HEMBB1 Homo sapiens cDNA clone HEMBB1001630.6
10568	23292	38530	2.01	5.4E-02	U20700.1	NT	Neurospora crassa ubiquitin-ylbromine c oxidoreductase subunit VIII (QCR8) mRNA, complete cds
11132	23800	37076	1.32	5.4E-02	BF371289.1	EST_HUMAN	RCS-FN0112-190700-021-008 FN0112 Homo sapiens cDNA
11132	23800	37077	1.32	5.4E-02	BF371289.1	EST_HUMAN	RCS-FN0112-190700-021-008 FN0112 Homo sapiens cDNA
1031	13791	28450	1.28	5.3E-02	AW391248.1	EST_HUMAN	QVO-ST0213-021299-062-409 ST0213 Homo sapiens cDNA
1031	13791	28451	1.28	5.3E-02	AW391248.1	EST_HUMAN	QVO-ST0213-021299-062-409 ST0213 Homo sapiens cDNA
1495	14242	28929	14.72	5.3E-02	TB4786.1	EST_HUMAN	yo87712.1 Stragene lung (#837210) Homo sapiens cDNA clone IMAGE:118951 5' similar to gb:K01508
2501	15218	27981	2.47	5.3E-02	AJ278408.1	NT	HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DP(1) ALPHA CHAIN (HUMAN); Pseudomonas putida tgsS gene
2943	15709	28390	0.85	5.3E-02	M89417.1	NT	Drosophila melanogaster laminin B2 gene, complete cds
2943	15709	28391	0.85	5.3E-02	M89417.1	NT	Drosophila melanogaster laminin B2 gene, complete cds
3150	15913	28558	5.51	5.3E-02	AJ278408.1	NT	Pseudomonas putida tgsS gene
5029	17749	30381	6.34	5.3E-02	M80463.1	NT	Mus musculus caudal type homeobox-1 (Cdx-1) gene, complete cds
5236	18042	30670	1.98	5.3E-02	AE000527.1	NT	Helicobacter pylori 26695 section 5 of 134 of the complete genome
5236	18042	30671	1.98	5.3E-02	AE000527.1	NT	Helicobacter pylori 26695 section 5 of 134 of the complete genome
6785	19529	32556	5.01	5.3E-02	9895413	NT	Lymphocytic disease virus 1, complete genome
6992	19685	32733	1	5.3E-02	U32832.1	NT	Haemophilus influenzae Rd section 147 of 163 of the complete genome
7260	19944		2.06	5.3E-02	S78221.1	NT	nuclear protein TIF-1 isoform [mRNA, mRNA, 4083 nt]
7777	20399	33514	0.65	5.3E-02	P38742	SWISSPROT	HYPOHETICAL 130.0 KD PROTEIN IN SNF8-SPO11 INTERGENIC REGION
8504	20988		0.7	5.3E-02	U10098.1	NT	Mus musculus T2935 cystatin C (cst3) gene, complete cds
9023	21713	34987	1.56	5.3E-02	X03127.1	NT	Podocarpa anserina mitochondrial spallan-sen DNA
10032	22880	35897	0.62	5.3E-02	AB022605.1	NT	Homo sapiens hCMT1b mRNA for mRNA (guanine-7-methyltransferase, complete cds)
10032	22880	35898	0.62	5.3E-02	AB022605.1	NT	Homo sapiens hCMT1b mRNA for mRNA (guanine-7-methyltransferase, complete cds)
10168	22804		0.63	5.3E-02	Y07907.1	NT	D.refio mRNA for 20-23 POU gene, splice variant (neurula, 9-16 hpf and postmitogenesis, 20-28 hpf)
10230	22878	36080	0.7	5.3E-02	X58432.1	NT	B.rerio pou(c) mRNA for transcription factor

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12776	25030	30864	1.43	5.35E-02	AF278815.1	NT	Branchiostoma floridae homeodomain-containing protein Hox13 (Hox13) gene, exon 2 and partial cds
2283	15008		160.96	5.2E-02	5031908	NT	Homo sapiens msp1A, alpha (PABA peptide hydrolase) (MEP1A) mRNA
3112	15877	28518	2.34	5.2E-02	AJ277861.1	NT	Homo sapiens partial LMOT1 gene for LIM domain only 1 protein, exon 1
3112	15877	28517	2.34	5.2E-02	AJ277861.1	NT	Homo sapiens partial LMOT1 gene for LIM domain only 1 protein, exon 1
3919	16689	29310	1.23	5.2E-02	AF236101.1	NT	Arabidopsis thaliana putative dicarboxylate efflux protein (Crd1) mRNA, complete cds
3921	16871		1.19	5.2E-02	6871757	NT	Mus musculus cyclin-like inducible SH2-containing protein 3 (Clas3) mRNA
4245	16868	29089	3.02	5.2E-02	U07132.1	NT	Human steroid hormone receptor Nhr-1 mRNA, complete cds
5083	17772		0.9	5.2E-02	AA297940.1	EST_HUMAN	EST11352 Uterus Homo sapiens cDNA 5' end
5828	18617	31548	0.61	5.2E-02	U14731.1	NT	Saccharomyces cerevisiae Cdc54p (CDC54) gene, complete cds
6016	18797		0.96	5.2E-02	AB309965.1	EST_HUMAN	w90a4.x1 NC1_CGAP_Lym12 Homo sapiens cDNA clone IMAGE 2409150 3' similar to contains MIER15.b1 MIER15 repetitive element
7174	19890	32932	3.13	5.2E-02	P38922	SWISSPROT	DNA POLYMERASE PROCESSIVITY FACTOR (POLYMERASE ACCESSORY PROTEIN) (PAP) (DNA-BINDING GENE 18 PROTEIN)
8095	20788		2.19	5.2E-02	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9620	22282	35472	1.87	5.2E-02	D10927.1	NT	Tumle mosaic virus genomic RNA for Capsid protein, complete cds
9620	22282	35473	1.87	5.2E-02	D10927.1	NT	Tumle mosaic virus genomic RNA for Capsid protein, complete cds
12414	24795		1.93	5.2E-02	Q03030	SWISSPROT	OXALOACETATE DECARBOXYLASE ALPHA CHAIN
2364	19086		1.17	5.2E-02	AL134071.1	EST_HUMAN	DKFZp547D073_r1 847 (synonym: hbr1) Homo sapiens cDNA clone DKFZp547D073 5'
4170	19816	29547	1.03	5.1E-02	AE001301.1	NT	Gliandylia trachomella section 28 of 87 of the complete genome
4900	17685		40.38	5.1E-02	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
6576	19339	32350	0.72	5.1E-02	AF280969.1	NT	HIV-1 patient 98 from Italy protease (pol) gene, complete cds
6780	17929	30594	1.44	5.1E-02	BF378623.1	EST_HUMAN	QV01-UM0051-250800-350-508 UM0051 Homo sapiens cDNA
8151	20845	33975	0.84	5.1E-02	M28434.1	NT	Human hypoxanthine phosphoribosyltransferase (HPR1) gene, complete cds
8151	20845	33976	0.84	5.1E-02	M28434.1	NT	Human hypoxanthine phosphoribosyltransferase (HPR1) gene, complete cds
8245	20939	34076	1.48	5.1E-02	AJ131696.1	NT	Spodoptera littoralis mRNA for 3-dehydroxycholesterol 3beta-reductase
8783	21475	34622	0.58	5.1E-02	P02533	SWISSPROT	KERATIN, TYPE I CYTOSKELETAL 14 (CYTOKERATIN 14) (K14) (CK 14)
8783	21475	34623	0.58	5.1E-02	P02533	SWISSPROT	KERATIN, TYPE I CYTOSKELETAL 14 (CYTOKERATIN 14) (K14) (CK 14)
9709	22380	35556	6.2	5.1E-02	AF012898.1	NT	Candida albicans protein phosphatase Sad1 homolog (SSD1) gene, complete cds
10082	22730	35645	1.89	5.1E-02	P40893	SWISSPROT	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX)
10733	23420	36681	2.44	5.1E-02	AF083830.1	NT	Homo sapiens ES18 mRNA, partial cds
10733	23420	36682	2.44	5.1E-02	AF083830.1	NT	Homo sapiens ES18 mRNA, partial cds
11020	24217	37540	1.3	5.1E-02	AL130076.2	NT	Campylobacter jejuni NCTC11168 complete genome, segment 3/8
12421	24797		2.58	5.1E-02	AF082467.1	NT	Cucumis melo polygalacturonase precursor (MPG3) mRNA, complete cds

Page 140 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12678	24698		1.41	5.1E-02	AA634104.1	EST_HUMAN	nt/3502.51 NCL CGAP P710 Homo sapiens cDNA clone IMAGE:908139
470	13288	25894	1.84	5.0E-02	AF060004.1	NT	Mus musculus fatty acid amide hydrolase gene, exon 10
1182	13934	26596	6.54	5.0E-02	Z69104.1	NT	Bacillus subtilis complete genome (section 1 of 21): from 1 to 213080
1893	14719	27438	3.91	5.0E-02	P02810	SWISSPROT	4) (PII-FPII-F) (PROTEIN APPROTEIN C) (CONTAINS: PEPTIDE P-C)
2821	13731	26397	1.28	5.0E-02	U72742.1	NT	Cryptosporidium parvum UDP-glucanase (UGT2B13) mRNA, complete cds
3332	16092		1.42	5.0E-02	Z306610	NT	Mus musculus Uuc-51 like kinase 2 (C. elegans) (U12), mRNA
3582	16337		1.04	5.0E-02	U32782.1	NT	Haemophilus influenzae Rd section 87 of 163 of the complete genome
3672	16425	28096	5.83	5.0E-02	U12789.2	NT	Anthrax toxin peritoxin protein homolog mRNA, complete cds
4770	17502		0.96	5.0E-02	P40232	SWISSPROT	CASEIN KINASE II BETA CHAIN (CK II)
6039	18819	31780	0.95	5.0E-02	AF092894.1	NT	Gallus gallus tyrosine kinase JAK1 (JAK1) mRNA, complete cds
6218	18990		1.3	5.0E-02	AJ242625.1	NT	Mus musculus Drp-1 gene, exons 1-6
7437	20114	33202	12.48	5.0E-02	P35616	SWISSPROT	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NFL)
10100	22748	35863	1.26	5.0E-02	AF305238.1	NT	Mus musculus Fes-interacting serine/threonine kinase 3 (Fis3) mRNA, complete cds
10521	23167		0.45	5.0E-02	BF213280.1	EST_HUMAN	901844733F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:4070101 5'
11473	24074	37383	2.5	5.0E-02	U67600.1	NT	Methanococcus jannaschii section 142 of 150 of the complete genome
11956	25246		3.5	5.0E-02	Q04047	SWISSPROT	NO-ON-TRANSIENT A PROTEIN
217	13028		24.03	4.9E-02	M14230.1	NT	Chicken 28-kDa vitamin D-dependent calcium-binding protein (CaBP-28) mRNA, complete cds
360	13168	25800	2.66	4.9E-02	AF275948.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
360	13168	25801	2.66	4.9E-02	AF275948.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
3282	16043	26692	2.53	4.9E-02	P54258	SWISSPROT	ATROPHIN-1 (DENTATORUBRAL-PALLIDOLYSIAN ATROPHY PROTEIN)
3556	16311		0.90	4.9E-02	AA188940.1	EST_HUMAN	z48412.51 Strategene HNT neuron (8637233) Homo sapiens cDNA clone IMAGE:832628 3' similar to contains ALU repetitive element/contains element MSR1 repetitive element.
3579	16334	28978	0.99	4.9E-02	AA400914.1	EST_HUMAN	z78403.51 Soares, testis NHT Homo sapiens cDNA clone IMAGE:728428 3'
3579	16334	28978	0.99	4.9E-02	AA400914.1	EST_HUMAN	z78403.51 Soares, testis NHT Homo sapiens cDNA clone IMAGE:728428 3'
4788	17619	30141	1.91	4.9E-02	AW167821.1	EST_HUMAN	xg56910.51 NCL CGAP U14 Homo sapiens cDNA clone IMAGE:2632386 3'
4788	17619	30142	1.91	4.9E-02	AW167821.1	EST_HUMAN	xg56910.51 NCL CGAP U14 Homo sapiens cDNA clone IMAGE:2632386 3'
5286	18091	30751	1.9	4.9E-02	L00122.1	NT	Rat diastase II gene, exon 6
5286	18091	30752	1.9	4.9E-02	L00122.1	NT	Rat diastase II gene, exon 6
7042	19733	32783	0.91	4.9E-02	AEO00980.1	NT	Archaeoglobus fulgidus section 127 of 172 of the complete genome
8513	21205		0.8	4.9E-02	AEO02306.1	NT	Chlamydia muridarum, section 40 of 85 of the complete genome
8852	21344	34489	0.71	4.9E-02	AL161559.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 59
10191	22839	30054	0.46	4.9E-02	P18532	SWISSPROT	TRANSCRIPTION FACTOR E3
10494	23140	36396	0.46	4.9E-02	AL163218.2	NT	Homo sapiens chromosome 21 segment HS210018

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11378	23095	37285	3.22	4.9E-02	AF008303.1	NT	Homo sapiens prepro placental TGF-beta gene, complete cds
12345	24752		1.77	4.9E-02	B623880	NT	Homo sapiens CS box-containing WD protein (LOC55854), mRNA
12598	24912		3.41	4.9E-02	M18264.1	NT	Human gamma-B-crystallin (gamma 1-2) and gamma-C-crystallin (gamma 2-1) genes, complete cds
321	13123	25760	1.54	4.9E-02	D16471.1	NT	Human mRNA, Xa terminal portion
322	13123	25760	3.94	4.9E-02	D16471.1	NT	Human mRNA, Xa terminal portion
478	13282	25899	6.96	4.9E-02	AF003100.1	NT	Arabidopsis thaliana AP2 domain containing protein RAP27 mRNA, partial cds
2271	14987	27735	1.82	4.9E-02	W51983.1	EST_HUMAN	z-A6902.a1 Soares, senescent fibroblasts_NHHSF Homo sapiens cDNA clone IMAGE:325811 3' similar to gb:M30638 LUPUS KU AUTOANTIGEN PROTEIN P88 (HUMAN);
3203	15096	28620	2.1	4.9E-02	X17144.1	NT	Tetrahymena rostrata histone H3l and histone H4l intergenic DNA
4823	17358		1.15	4.9E-02	Z54290.1	NT	S. acrota gene for skeletal muscle myosin II receptor
5144	17863	30478	1.03	4.9E-02	11693131	NT	Homo sapiens DKFZP434D222 protein (RENT2), mRNA
5144	17863	30479	1.03	4.9E-02	11693131	NT	Homo sapiens DKFZP434D222 protein (RENT2), mRNA
8037	20732	33864	1.32	4.9E-02	AW388497.1	EST_HUMAN	MF2-ST0129-Z21099-012-502 ST0128 Homo sapiens cDNA
9027	21717	34870	0.95	4.9E-02	AJ001398.1	NT	Fugu rubripes rps24 gene
9027	21717	34871	0.95	4.9E-02	AJ001398.1	NT	Fugu rubripes rps24 gene
6731	19595	32597	3.83	4.7E-02	W01153.1	EST_HUMAN	y92709.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:281017 5' similar to contains Alu repetitive element
6819	19490	32503	2.02	4.7E-02	M62752.1	NT	Rat stathin-related protein (s1) gene, complete CDS
8149	20843	33073	8.24	4.7E-02	X15543.1	NT	B. taurus mRNA for RF-35-DNA-binding protein
8852	21543	34090	0.96	4.7E-02	X69211.1	NT	H. sapiens DNA for endogenous retroviral like element
8875	21566		2.88	4.7E-02	AB023678.1	NT	Gallus gallus Wpici-8 gene, complete cds
9127	21815	34981	6.89	4.7E-02	X15543.1	NT	B. taurus mRNA for RF-35-DNA-binding protein
9647	22200	35382	0.87	4.7E-02	BF303237.1	EST_HUMAN	601962692FT NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4198414 5'
9835	22287		0.57	4.7E-02	AB73042.1	EST_HUMAN	w979c10.x1 Soares_NFL_T_GBC ST1 Homo sapiens cDNA clone IMAGE:2247314 3'
10654	23345	36582	1.4	4.7E-02	6754585	NT	Mus musculus ligand of numb-protein X (Lnx), mRNA
11545	24145	37463	1.39	4.7E-02	U73621.1	NT	Bos taurus paired box protein (pac-d) gene, partial cds
11845	24145	37464	1.39	4.7E-02	U73621.1	NT	Bos taurus paired box protein (pac-d) gene, partial cds
264	13072	25712	0.83	4.9E-02	BE163883.1	EST_HUMAN	PMO-H1T0339-281199-003-g05 HT0339 Homo sapiens cDNA
722	13498	28149	2.91	4.9E-02	AE000445.1	NT	E. coli K-12 MG1665 section 335 of 400 of the complete genome
1260	14018		0.99	4.9E-02	A014255.1	EST_HUMAN	am50402.e1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1638879 3' similar to TR-P90333
1338	14098	28702	3.47	4.9E-02	AV727059.1	EST_HUMAN	P06533 LIMA, contains element LTR1 repetitive element;
							AV727059 HTC Homo sapiens cDNA clone HTC8WC01 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2492	15208	27951	2.31	4.0E-02	AW230023.1	EST_HUMAN	xp24f03.x1 NCL_GCAP_K611 Homo sapiens cDNA clone IMAGE:2884653 3' similar to SW:GRF1_HUMAN
2811	13072	25712	1.9	4.0E-02	BE153593.1	EST_HUMAN	Q12846 G-RICH SEQUENCE FACTOR-1
3325	15774	28423	0.74	4.0E-02	BE153593.1	EST_HUMAN	PMD-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA
3487	15774	28423	0.73	4.0E-02	BE153593.1	EST_HUMAN	PMD-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA
4103	18846		1.35	4.0E-02	AF220365.1	NT	Mus musculus nucleolar RNA helicase II/Gu (dab21) gene, complete cds
5121	17839	30455	0.89	4.0E-02	AA079157.1	EST_HUMAN	zmf0210.01 Syndecan overexpression cancer (#637219) Homo sapiens cDNA clone IMAGE:545394 3' similar to gb:303212 KERATIN, TYPE II CTOSKELETAL 7 (HUMAN); Haplochromis burtoni gonadotroph-releasing hormone and GnRH-associated peptide precursor (Gnrh2) gene, complete cds
5847	18442	31355	1.67	4.0E-02	AF076062.1	NT	C.reinhardtii ep2 (epB) mRNA
6130	18914	31883	3.51	4.0E-02	X01624.1	NT	C.reinhardtii ep2 (epB) mRNA
6136	18914	31884	3.51	4.0E-02	X01624.1	NT	C.reinhardtii ep2 (epB) mRNA
6702	19617	32859	1.47	4.0E-02	A140574.1	EST_HUMAN	sc030068.x1 Soares, placenta, Bethesda, 21kbHP8656W Homo sapiens cDNA clone IMAGE:1713971 3' similar to ccr10.1 L1.18 L1 repetitive element;
8554	21246	34386	2.09	4.0E-02	BE154006.1	EST_HUMAN	PMD-HT0339-060400-009-G12 HT0339 Homo sapiens cDNA
11379	23986	31726	4.94	4.0E-02	AA073328.1	EST_HUMAN	d27h06.x1 Soares, NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1624737 3'
12325	24744		1.88	4.0E-02	AV712871.1	EST_HUMAN	AV712871 DCA Homo sapiens cDNA clone DCAA2/F07 5'
12705	24985		3.98	4.0E-02	X07808.1	NT	Human germline immunoglobulin lambda light chain gene
434	13220	25868	1.72	4.0E-02	P22448	SWISSPROT	RETINOIC ACID RECEPTOR BETA (RAR-BETA)
1198	13948	26612	1.11	4.0E-02	AF005730.1	NT	Marburg virus strain MS Africa/Johannesburg/1975/Ozolin VP35 gene, complete cds
1198	13948	26613	1.11	4.0E-02	AF005730.1	NT	Marburg virus strain MS Africa/Johannesburg/1975/Ozolin VP35 gene, complete cds
1797	14537	27247	4.57	4.0E-02	P32182	SWISSPROT	HEPATOCYTE NUCLEAR FACTOR 3-BETA (HNF-3B)
2103	14634	27693	3.76	4.0E-02	AE003984.1	NT	Xylella fastidiosa, section 110 of 229 of the complete genome
3710	10463	29102	3.05	4.0E-02	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
6137	18915	31885	1.61	4.0E-02	AJ400877.1	NT	Homo sapiens ASCL3 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
6415	19163	32162	0.77	4.0E-02	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
6779	19523	32550	0.61	4.0E-02	L26487.1	NT	Methanococcus marisnigri carbon monoxide dehydrogenase large subunit (cdhA) gene, carbon monoxide dehydrogenase small subunit (cdhB) gene, complete cds
6779	19523	32551	0.61	4.0E-02	L26487.1	NT	Methanococcus marisnigri carbon monoxide dehydrogenase large subunit (cdhA) gene, carbon monoxide dehydrogenase small subunit (cdhB) gene, complete cds
8202	20986	34125	1.98	4.0E-02	AF036984.1	NT	Arabidopsis thaliana GCAT-1 box binding factor HAP3 homolog gene, complete cds
9849	22486	35889	4.57	4.0E-02	AJ325216.1	EST_HUMAN	EST/28167 Corbellum II Homo sapiens cDNA 5' end similar to similar to neuro-D4 protein
10000	22648	35890	0.48	4.0E-02	X06508.1	NT	A. europaeus mRNA for legumin-like protein

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10118	22764	35976	0.85	4.5E-02	AB000470.1	NT	Gallus gallus mRNA for alpha1 integrin, complete cds
12154	24640	31097	1.94	4.5E-02	11418013	NT	Homo sapiens rat finger protein-like 3 (RFLP3), mRNA
12537	25290	30733	6.91	4.5E-02	AA191097.1	EST_HUMAN	zq43911.1T Stratagene HNT neuron (#637233) Homo sapiens cDNA clone IMAGE:632493 5'
213	13025		5.52	4.4E-02	BE972733.1	EST_HUMAN	601662154FT NIH_MGC_82 Homo sapiens cDNA clone IMAGE:3835388 5'
2088	14821		5.42	4.4E-02	PS1598	SWISSPROT	HYPOTHETICAL PROTEIN (ORF 2280)
2464	15211	27953	2.4	4.4E-02	AW87475.1	EST_HUMAN	QV27P0012-070300-070-g02 PT0012 Homo sapiens cDNA
3631	16384	28024	1.95	4.4E-02	AF169160.1	NT	Mycoplasma genitalium serine/threonine kinase Ptn10 (p10) gene, complete cds
4584	17319	29945	1.24	4.4E-02	AF106907.1	NT	Homo sapiens S104 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
4584	17319	29946	1.24	4.4E-02	AF106907.1	NT	Homo sapiens S104 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
4983	17427		2.28	4.4E-02	AJ222899.1	NT	Ornithine decarboxylase 1 (ODC1) gene, complete cds
7018	18710	32789	0.64	4.4E-02	AF066824.1	NT	Canis familiaris matrix metalloproteinase 9 (MMP-9) mRNA, partial cds
7018	18710	32787	0.64	4.4E-02	AF066824.1	NT	Canis familiaris matrix metalloproteinase 9 (MMP-9) mRNA, partial cds
8650	21342	34486	2.14	4.4E-02	AA736999.1	EST_HUMAN	hw13103.s1 NC1_CGAP_SST Homo sapiens cDNA clone IMAGE:1239221 3'
11007	23679	39536	2.62	4.4E-02	AF060699.1	NT	Hepatitis E virus strain HEV-US2 polyprotein (ORF1), (ORF3), and capsid protein (ORF2) genes, complete cds
11157	23824	37104	2.78	4.4E-02	AA488739.1	EST_HUMAN	es3304.1 Gestier Wilms tumor Homo sapiens cDNA clone IMAGE:867031 5'
11890	24480		2.57	4.4E-02	AB040928.1	NT	Homo sapiens mRNA for KIAA1483 protein, partial cds
12067	25408		1.87	4.4E-02	BF241245.1	EST_HUMAN	601878746FT NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107418 5'
703	13536	26195	7.07	4.3E-02	AF003249.1	NT	Morone saxatilis myosin heavy chain FM3A (FM3A) mRNA, complete cds
2573	15287	28024	1.23	4.3E-02	AV704878.1	EST_HUMAN	AV704878 AD8 Homo sapiens cDNA clone ADBA08 5'
3423	18180	28530	7.84	4.3E-02	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3551	19404		1.37	4.3E-02	AF000568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
5152	17869	30482	0.95	4.3E-02	U11788.1	NT	Grapevine fanleaf virus coat protein gene, partial cds
6404	19173	32171	4.3	4.3E-02	P30427	SWISSPROT	PLECTIN
6404	19173	32172	4.3	4.3E-02	P30427	SWISSPROT	PLECTIN
6933	19395	32410	0.73	4.3E-02	AA652269.1	EST_HUMAN	ne6b12.st NC1_CGAP_P2 Homo sapiens cDNA clone IMAGE:1188986
8411	21104	34243	0.73	4.3E-02	AF283369.1	NT	Homo sapiens desmocollin 3 (DS3C3) gene, complete cds, alternatively spliced
8700	21392	34537	1.02	4.3E-02	X55322.1	NT	H. sapiens NCAM mRNA for neural cell adhesion molecule
8700	21392	34538	1.02	4.3E-02	X55322.1	NT	H. sapiens NCAM mRNA for neural cell adhesion molecule
803	13676	26238	2.7	4.2E-02	AU123327.1	EST_HUMAN	AU123327 NT2RM2 Homo sapiens cDNA clone NT2RM2000020 5'
846	13616		2.32	4.2E-02	AU123327.1	EST_HUMAN	AU123327 NT2RM2 Homo sapiens cDNA clone NT2RM2000020 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
876	13645	26015	1.35	4.2E-02	AW003645.1	EST_HUMAN	w34401.x1 NCL CGAP_P41 Homo sapiens cDNA clone IMAGE:2645584 3' similar to TR-Q63281 Q63281
1714	14457		1.02	4.2E-02	AL445066.1	NT	L1 RETROPOSON, ORF2 MRNA, contains L1.8 L1 L1 repetitive element ; Thermoplasma acidophilum complete genome; segment 4/5
1771	14513	27213	1.01	4.2E-02	P23091	SWISSPROT	TRANSFORMING PROTEIN MAF
3555	16408	29047	2.43	4.2E-02	P23091	SWISSPROT	TRANSFORMING PROTEIN MAF
4100	16843	29471	0.7	4.2E-02	BE262805.1	EST_HUMAN	601160933FT NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3603505 5'
4284	17023	29648	1.83	4.2E-02	U08674.1	NT	Saccharomyces cerevisiae general sporulation (GSG1) gene, complete cds
4284	17023	29648	1.83	4.2E-02	U08674.1	NT	Saccharomyces cerevisiae general sporulation (GSG1) gene, complete cds
4695	17428	30060	2.32	4.2E-02	BF342985.1	EST_HUMAN	602017105FT NCL CGAP_Bmd4 Homo sapiens cDNA clone IMAGE:4162872 5'
5530	18328	31231	0.68	4.2E-02	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
5530	18328	31232	0.68	4.2E-02	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
6886	17962	30517	0.56	4.2E-02	BE268285.1	EST_HUMAN	601124566FT NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2988318 5'
7426	20103	33190	4.7	4.2E-02	AF276752.1	NT	Leishmania pneumophila cathepsin-paroicase (cat) gene, complete cds
8710	21402	34547	3.96	4.2E-02	P05095	SWISSPROT	ALPHA-ACTININ 3, NON MUSCULAR (F-ACTIN CROSS LINKING PROTEIN)
10064	22712	35630	1.22	4.2E-02	Q18950	SWISSPROT	T-BRAIN-1 PROTEIN (T-BOX BRAIN PROTEIN 1) (TBR-1) (TES-56)
10989	23845	36898	2.82	4.2E-02	AA976118.1	EST_HUMAN	cr33411.x1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1558461 3' similar to gb:M65290
11278	23936	37231	2.54	4.2E-02	BE815822.1	EST_HUMAN	INTERLEUKIN-12 BETA CHAIN PRECURSOR (HUMAN);
11278	23936	37232	2.54	4.2E-02	BE815822.1	EST_HUMAN	PM3-BN0174-250500-009-410 BN0174 Homo sapiens cDNA
11489	24090	37402	1.68	4.2E-02	AF178458.1	NT	PRRS isolate PRRSV98 envelope glycoprotein gene, complete cds
12415	25335		3.43	4.2E-02	AI083494.1	EST_HUMAN	w44910.x1 NCL CGAP_Part1 Homo sapiens cDNA clone IMAGE:2510850 3'
467	13281	25616	1.24	4.1E-02	AF200629.1	NT	Homo sapiens HPS1 gene, intron 5
2893	15392	28131	1.04	4.1E-02	AE002590.2	NT	Chlamydia muridarum, section 80 of 85 of the complete genome
4436	17175		7.52	4.1E-02	AW893484.1	EST_HUMAN	QV1-NN0012-180400-164-009 NN0012 Homo sapiens cDNA
5556	18353	31282	0.82	4.1E-02	BE251894.1	EST_HUMAN	601107536FT NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3343855 5'
5556	18353	31283	0.82	4.1E-02	BE251894.1	EST_HUMAN	601107536FT NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3343855 5'
6783	19527		0.67	4.1E-02	X75881.1	NT	A.thaliana mRNA for plasma membrane intrinsic protein 1a
6969	19691	32742	1.25	4.1E-02	AE002132.1	NT	Ureaplasma urealyticum section 33 of 50 of the complete genome
7413	20090	33174	2.09	4.1E-02	7682347	NT	Homo sapiens KIAA0887 protein (KIAA0887), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7502	20173	33285	0.88	4.1E-02	D02110.1	NT	Mus musculus proviral insertion in the cGMP-phosphodiesterase (rd beta PDE) gene, intron 1, with the proviral insert encompassing the 5' pseudogene (3' end) and 3' LTR
7695	20329	33439	3.12	4.1E-02	AF029198.1	NT	Fugu tubripes neural cell adhesion molecule L1 homolog (L1-CAM) gene, complete cds; putative protein 1 (PUT1) gene, partial cds; mitotic-specific chromosome segregation protein SMC1 homolog (SMC1) gene, complete cds; and sodium channel alpha-1 subunit
8541	21233	34376	0.88	4.1E-02	AF04887	SWISSPROT	CUTICLE COLLAGEN 34
9052	21741	34899	0.81	4.1E-02	AA372398.1	EST_HUMAN	EST84291 Colon adenocarcinoma IV Homo sapiens cDNA 5' end
12728	25336	30715	4.07	4.1E-02	AJ271909.1	NT	Brassica napus gln gene for plasma glutamine synthetase, exon 1-12
3338	19000	28650	3.28	4.0E-02	AB040904.1	NT	Homo sapiens mRNA for KIAA1471 protein, partial cds
3780	16532	29170	1.27	4.0E-02	L11910.1	NT	Human retinoblastoma susceptibility gene exons 1-27, complete cds
5285	18100	30759	5.4	4.0E-02	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
8120	18898	31898	0.83	4.0E-02	BF110434.1	EST_HUMAN	7n52h07.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:368330 3' similar to TR-O75298 O75298 R29124.1.1
7500	20258	33398	6.57	4.0E-02	L28338.1	NT	Strongylocentrotus purpuratus homolog of human bone morphogenetic protein 1 (submp) mRNA, complete cds
7650	20314	33440	0.88	4.0E-02	AL101535.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 35
7886	20330	33440	0.7	4.0E-02	AB000381.1	NT	Homo sapiens DNA for GPI-anchored molecule-like protein, complete cds
7896	20330	33441	0.7	4.0E-02	AB000381.1	NT	Homo sapiens DNA for GPI-anchored molecule-like protein, complete cds
8617	21309	34451	2.22	4.0E-02	P08840	SWISSPROT	GLUCOAMYLASE S182 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE)
9544	22197	35408	0.78	4.0E-02	BF070376.1	EST_HUMAN	602153894.F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294724.5
9657	22220	35408	4.01	4.0E-02	AJ000941.1	NT	Methanobacterium thermoautotrophicum strain Marburg, Thioflavin reductase subunit A
9884	22334	35408	1.21	4.0E-02	D43949.1	NT	Human mRNA for KIAA0082 gene, partial cds
11778	24359	35408	1.54	4.0E-02	AJ001018.1	NT	Kluyveromyces fragilis gene for Ca ²⁺ ATPase
12053	25158	30898	3.31	4.0E-02	AJ001056.1	NT	Oxite arica mRNA for acetyl-CoA carboxylase
1086	13856	28510	2.75	3.9E-02	BF010149.1	EST_HUMAN	UHH-BW1-anch-H08-Q-U1st NCI_CGAP Subt Homo sapiens cDNA clone IMAGE:3084134.3'
1323	14072	28745	2.45	3.9E-02	P41047	SWISSPROT	FAS ANTIGEN LIGAND
1954	14689	27402	2.4	3.9E-02	AJ403398.1	NT	M. musculus DNA for desmin-binding fragment Desd7
2708	16416	29487	1.89	3.9E-02	4508982	NT	Homo sapiens succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD (SDHC) mRNA
4118	16880	29487	0.83	3.9E-02	8924019	NT	Homo sapiens hypothetical protein PRO1163 (PRO1163), mRNA
4118	16880	29488	0.83	3.9E-02	8924019	NT	Homo sapiens hypothetical protein PRO1163 (PRO1163), mRNA

Page 146 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5408	19207	30913	0.55	3.9E-02	D50608.1	NT	Rat gene for cholecystekinin type-A receptor (CCKAR), complete cds
5408	18207	30914	0.55	3.9E-02	D50608.1	NT	Rat gene for cholecystekinin type-A receptor (CCKAR), complete cds
5644	18439	31353	1.04	3.9E-02	BE98841.1	EST_HUMAN	801649874F1 NIH_MGC 74 Homo sapiens cDNA clone IMAGE:3633542 5'
5786	18557	31484	0.85	3.9E-02	BF07203.1	EST_HUMAN	802138132F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4274910 5'
6857	19439	32484	1.18	3.9E-02	BE271437.1	EST_HUMAN	601140727F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3049830 5'
7739	20435	33557	1.14	3.9E-02	BF239613.1	EST_HUMAN	801806948F1 NIH_MGC 54 Homo sapiens cDNA clone IMAGE:4134779 5'
7959	20654	33778	0.79	3.9E-02	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
7959	20654	33779	0.79	3.9E-02	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
11398	20396	33511	2	3.9E-02	P48778	SWISSPROT	ANTIGEN GOR
11913	25288		15.38	3.9E-02	AB042553.1	NT	Felis catus G-CSF gene for granulocyte colony-stimulating factor, complete cds
12543	24883		1.83	3.9E-02	U60061.1	NT	Human germline T-cell receptor beta chain TCRBV1781A1T, TCRBV251, TCRBV10S1P, TCRBV28S1P, TCRBV18S1P, TCRBV15S1, TCRBV11S1A1T, HVB, etc., TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV33S1, TCRBV43A1T, TRY4, TRY6, TRY8, TRY7, TRY8, TCRBD1, TCRBU1S1, TCRBU1S2, >
12666	25223		5.31	3.9E-02	AL049896.2	NT	Mus musculus chromosome X contig3; X-linked lymphocyte regulated 5' gene, Zinc finger protein 275, Zinc finger protein 92, mms22orf
1945	14960	27394	1.16	3.8E-02	BE885137.1	EST_HUMAN	801510891F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3612215 5'
2114	14945		1.77	3.8E-02	AJ251973.1	NT	Homo sapiens partial stathin-1 gene
4876	17603	30226	1.1	3.8E-02	AJ124122.1	EST_HUMAN	AJ124122 NT25M2 Homo sapiens cDNA clone NT2RM2001698 5'
5354	18157	30840	1	3.8E-02	M11228.1	NT	Human protein C gene, complete cds
5996	18777	31739	1.32	3.8E-02	P10284	SWISSPROT	HOMEOBOX PROTEIN HOXB-84 (HOXB-2.6)
7218	19003	32978	1.69	3.8E-02	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
8562	21254		1.33	3.8E-02	M00075.1	NT	Human von Willebrand factor gene, exons 23 through 34
10549	23245	36481	2.62	3.8E-02	AF143952.2	NT	Homo sapiens PELOTA (PELOTA) gene, complete cds
971	13736	26401	4.64	3.7E-02	P16137	SWISSPROT	LAMININ ALPHA-1 CHAIN PRECURSOR (LAMININ A CHAIN)
1367	14115	28790	0.91	3.7E-02	L14661.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
2230	14958	27698	3.84	3.7E-02	AJ094909.1	EST_HUMAN	wf5508.x1 NCI CGAP JKD11 Homo sapiens cDNA clone IMAGE:2494502 3'
2582	15296	28034	0.92	3.7E-02	AB016261.1	NT	Homo sapiens mRNA for KIAA0718 protein, partial cds
3045	15811	28457	0.9	3.7E-02	P73644	SWISSPROT	ECMESODERMIN
3047	15813	28458	2.99	3.7E-02	BF312963.1	EST_HUMAN	801806233F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:4125584 5'
3447	16203		1.17	3.7E-02	6880541	NT	Mus musculus potassium large conductance pH-sensitive channel, subfamily M, alpha member 3 (Kcnma3), mRNA
6978	25422		0.83	3.7E-02	AP000063.1	NT	Aeropyrum pernix genomic DNA, section 87

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7692	20280	33368	0.56	3.7E-02	AE003975.1	NT	Xyella fastidiosa, section 121 of 220 of the complete genome
9814	22953		1	3.7E-02	AA782516.1	EST_HUMAN	af55c09.v1 Soares_Parathyroid_tumor_NbHPA Homo sapiens cDNA clone 1300912.3'
11954	24506	37811	3.86	3.7E-02	BF124974.1	EST_HUMAN	801782171F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4024973.5'
12803	25193	30813	1.94	3.7E-02	11418392	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1 (SLC22A1), mRNA
3046	10398	29039	1.38	3.6E-02	X73221.1	NT	H. vulgare Sst1 gene for sucrose synthase
3954	10407	29046	0.88	3.6E-02	AL098906.1	NT	Homo sapiens genomic region containing hypervariable minisatellite chromosome 10(10q26.3) of Homo sapiens
6341	18144	30806	0.58	3.6E-02	X59403.1	NT	C.glycemicum gap, pgk and tpi genes for glyceraldehyde-3-phosphate, phosphoglycerate kinase and triosephosphate isomerase
6341	18144	30823	0.58	3.6E-02	X59403.1	NT	C.glycemicum gap, pgk and tpi genes for glyceraldehyde-3-phosphate, phosphoglycerate kinase and triosephosphate isomerase
5413	18212	30621	0.84	3.6E-02	AF181722.1	NT	Homo sapiens RU2AS (RU2) mRNA, complete cds
6607	19370	32392	5.47	3.6E-02	AW945518.1	EST_HUMAN	CM2-EN0013-110500-192-510 EN0013 Homo sapiens cDNA
6607	19370	32383	5.47	3.6E-02	AW945518.1	EST_HUMAN	CM2-EN0013-110500-192-510 EN0013 Homo sapiens cDNA
6966	19678	32725	2.5	3.6E-02	AF025992.1	NT	Chromatium vinosum sulfur globule protein CV2 precursor (sgp2) gene, complete cds
7206	19891	32867	2.78	3.6E-02	AA714521.1	EST_HUMAN	mw20405.v1 NCI_CGAP_GC80 Homo sapiens cDNA clone IMAGE:1241024.3' similar to gb:U00314.m22
7533	20203	30298	1.03	3.6E-02	BE149078.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
8291	21698	35130	1.72	3.6E-02	U20608.1	NT	MRO-HT0159-030200-003-508 HT0159 Homo sapiens cDNA
9291	21698	35131	1.72	3.6E-02	U20608.1	NT	Dicystidium discoidium unknown spore germination-specific protein-like protein, orf1, orf2 and orf3 genes, complete cds
9512	22165	35347	0.83	3.6E-02	BF347598.1	EST_HUMAN	Dicystidium discoidium unknown spore germination-specific protein-like protein, orf1, orf2 and orf3 genes, complete cds
11135	23803	37080	1.4	3.6E-02	BF131609.1	EST_HUMAN	802020463F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4166116.5'
11135	23803	37091	1.4	3.6E-02	BF131609.1	EST_HUMAN	801820416F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4062870.5'
11952	24436		1.48	3.6E-02	AL280068.1	EST_HUMAN	801820416F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4062870.5'
875	13644	26314	1.08	3.5E-02	U06906.1	NT	Dracophila melanogaster tlggrin mRNA, complete cds
988	13761	26413	1.39	3.5E-02	AF263417.1	NT	Homo sapiens microsome epoxide hydrolase (EPHX1) gene, complete cds
1556	14303	26991	1.55	3.5E-02	BF678085.1	EST_HUMAN	802085136F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246377.5'
1556	14303	26992	1.55	3.5E-02	BF678085.1	EST_HUMAN	802085136F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246377.5'
4188	16929	29559	1.83	3.5E-02	AE001773.1	NT	Thermoboga maritima section 85 of 136 of the complete genome
4281	17020	29647	1.27	3.5E-02	F58780	SWISSPROT	CYSTATHIONINE BETA-LYASE PRECURSOR (CBL) (BETA-CYSTATHIONASE) (CYSTEINE LYASE)
8127	18905	31873	1.77	3.5E-02	J01238.1	NT	Maize actin 1 gene (MAC1), complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7877	20572		0.78	3.9E-02	H29951.1	EST_HUMAN	yp44405.r1 Scars retina N265HR Homo sapiens cDNA clone IMAGE:190256 5' similar to contains Alu repetitive element
8521	21213	34357	2.7	3.5E-02	BE95870.1	EST_HUMAN	601644701R2 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3920737 3'
9817	22506	35702	1.45	3.5E-02	X78642.1	NT	Liardia MG1363 gpiI and dmK genes
9906	22613	35817	0.5	3.9E-02	BE961042.1	EST_HUMAN	601344691F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677854 5'
11477	24078	37388	1.82	3.5E-02	AW861041.1	EST_HUMAN	PM1-GT0326-281260-003-GT0326 Homo sapiens cDNA
11477	24078	37389	1.82	3.5E-02	AW861041.1	EST_HUMAN	PM1-GT0326-281260-003-GT0326 Homo sapiens cDNA
12598	25234		5.69	3.5E-02	BE276948.1	EST_HUMAN	601173765F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3543833 5'
564	13346	25973	1.14	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
564	13346	25973	1.14	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
565	13346	25973	6.47	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
565	13346	25974	6.47	3.4E-02	AK024424.1	NT	Homo sapiens mRNA for FLJ00013 protein, partial cds
1029	13789	26448	2.92	3.4E-02	AW274020.1	EST_HUMAN	SW-C211_HUMAN P3801 PUTATIVE SURFACE GLYCOPROTEIN C21ORF1 PRECURSOR
1184	13836		7.14	3.4E-02	11345459	NT	Homo sapiens hypothetical protein FLJ13220 (FLJ13220), mRNA
2361	15112	27849	2.06	3.4E-02	T57180.1	EST_HUMAN	yc20408.r1 Stratiogene lung (#637210) Homo sapiens cDNA clone IMAGE:81250 5' similar to contains MER29 repetitive element
3424	16181	28831	1.4	3.4E-02	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
3757	16509	29145	0.7	3.4E-02	BE339514.1	EST_HUMAN	RC3-FN0155-06700-011-d10 FN0155 Homo sapiens cDNA
3900	16630	29291	3.18	3.4E-02	AW794952.1	EST_HUMAN	RC6-UM0015-210200-021-A10 UM0015 Homo sapiens cDNA
4599	17284	29622	2.41	3.4E-02	X58796.1	NT	IMuaculus S-antigen gene promoter region
5000	17723		3.50	3.4E-02	Q28457	SWISSPROT	LA PROTEIN HOMOLOG (LA RIBONUCLEOPROTEIN) (LA AUTOANTIGEN HOMOLOG)
6019	17740	30349	1.2	3.4E-02	AI012480.1	NT	Caenorhabditis elegans mRNA for DYS-1 protein, partial
6754	17823	30558	4.73	3.4E-02	U24393.1	EST_HUMAN	Human lysyl oxidase-like protein gene, exon 3
8169	20853		3.25	3.4E-02	AA86626.1	EST_HUMAN	wf69d04.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2433031 3'
8446	21338	34482	1.36	3.4E-02	AA064886.1	EST_HUMAN	ra70008.x1 NCL CGAP_Alv1 Homo sapiens cDNA clone IMAGE:1218071 similar to contains Alu repetitive element/contains element MER29 repetitive element
							zq04f11.x1 Stratiogene muscle 937206 Homo sapiens cDNA clone IMAGE:928749 3' similar to TR-G1017426 G1017426
8814	21806		5.97	3.4E-02	AA194306.1	EST_HUMAN	IPISGKPLPVLTSLRDGPVLKATMRPNTETAEIN.TNLKESVTADAGRYEITAANSSGTTKAFINVLDRPG
9678	22330		0.63	3.4E-02	AK02719.1	EST_HUMAN	PPT GPYVSDITDESVTLKWPFPYKDGQSYVTLKRETSYAVTVEVSATYARTMMKVMKL ...
363	13161		0.61	3.3E-02	AA398735.1	EST_HUMAN	ca58h08.x1 Scars_peritrophic_luminal_Nib-HPA Homo sapiens cDNA clone IMAGE:1883519 3'
1143	13868	26559	17.86	3.3E-02	AB035887.1	NT	z7f608.r1 Scars_beta_NHT Homo sapiens cDNA clone IMAGE:726188 3'
							Cricetus griseus GYP2A17 mRNA for cytochrome P450 2A17, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1489	14236	26023	1.16	3.3E-02	L16870.1	NT	Homo sapiens cytochrome P450C218 (CYP2C18) gene, exons 2 and 3
1635	14351	27068	1.47	3.3E-02	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
1732	14474		1.26	3.3E-02	AE000700.1	NT	Aquaticus medius section 32 of 109 of the complete genome
2077	14909		2.48	3.3E-02	R09112.1	EST_HUMAN	Y25009.J1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:127888 5'
2453	15171	27910	1.31	3.3E-02	6755882	NT	Mus musculus tumor rejection antigen gp98 (Trt1), mRNA
4156	14381	27068	2.44	3.3E-02	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
4436	17171	29800	1.78	3.3E-02	6755882	NT	Mus musculus tumor rejection antigen gp98 (Trt1), mRNA
6336	19106	32095	27.36	3.3E-02	BF245686.1	EST_HUMAN	601853910F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073787 5'
6336	19106	32096	27.36	3.3E-02	BF245686.1	EST_HUMAN	601853910F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073787 5'
7408	20085	33169	0.63	3.3E-02	AF124162.1	NT	Nicotiana plumbaginifolia methylglutathione synthase cDNA clone IMAGE:3562423 3'
9222	21901	35071	0.74	3.3E-02	BF115621.1	EST_HUMAN	7m92304.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3562423 3'
9222	21901	35072	0.74	3.3E-02	BF115621.1	EST_HUMAN	7m92304.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3562423 3'
9324	21991	35162	0.66	3.3E-02	AA488202.1	EST_HUMAN	ad8080.at Soares_NHFB Homo sapiens cDNA clone IMAGE:877673 3' similar to gb:X70944_cds1
9324	21991	35163	0.66	3.3E-02	AA488202.1	EST_HUMAN	ad8080.at Soares_NHFB Homo sapiens cDNA clone IMAGE:877673 3' similar to gb:X70944_cds1
11005	23735	37008	3.63	3.3E-02	BF691107.1	EST_HUMAN	MYOBLAST CELL SURFACE ANTIGEN 24.1D5 (HUMAN);
12142	24630		3.24	3.3E-02	T96546.1	EST_HUMAN	60224777F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332497 5'
12259	24704		1.62	3.3E-02	AF280666.1	NT	ye49F11.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:121101 5'
12288	24718		2.92	3.3E-02	M81890.1	NT	Mus musculus E1F-4H gene, partial cds; LIMK1 gene, complete cds; and ELN gene, partial cds
129	12944	22598	0.74	3.2E-02	AF02005.1	NT	Human fibrinogen 11 (LT1) gene, complete mRNA
1104	13981	26620	7.01	3.2E-02	AF088276.1	NT	Oryctolagus cuniculus gene encoding ileal sodium-dependent bile acid transporter
1104	13981	26621	7.01	3.2E-02	AF088276.1	NT	Drosophila melanogaster heat shock protein 85 (hsp85) gene, hsp85d allele, complete cds
2112	14843		3.01	3.2E-02	P28945	SWISSPROT	Drosophila melanogaster heat shock protein 88 (hsp88) gene, hsp88d allele, complete cds
3131	15906	29540	10.06	3.2E-02	BE967933.1	EST_HUMAN	LARGE TEGUMENT PROTEIN
3701	16454	29004	0.92	3.2E-02	AL163203.2	NT	60144243F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846727 5'
3942	16962	26330	1.84	3.2E-02	Z74103.1	NT	Homo sapiens chromosome 21 segment HS21C03
3942	16962	26331	1.84	3.2E-02	Z74103.1	NT	S cerevisiae chromosome IV reading frame ORF YDLO55c
4163	16634		14.21	3.2E-02	X94788.1	NT	S cerevisiae chromosome IV reading frame ORF YDLO55c
4716	17446	30081	3.42	3.2E-02	AF114182.1	NT	H. sapiens RP3 gene (XLRP gene 3)
4894	17621		1.09	3.2E-02	AF109606.1	NT	Sedifraga ridifica maturase (matK) gene, chloroplast gene encoding chloroplast protein, partial cds
5448	18247	31135	1.83	3.2E-02	X06709.1	NT	Mus musculus MHC class III region RD gene, partial cds; B1, C2, G9A, NG22, G9, HSP70, HSP70, HSC70, and enRNP genes, complete cds; G7A gene, partial cds; and unknown genes
						NT	S. griseus carum WHIG-SIV gene

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6448	18247	31136	1.83	3.2E-02	X68709.1	NT	S. griseocaudatus wntQ-Six gene
6431	19189	32198	3.13	3.2E-02	M32437.1	NT	Radiopharmaceutics left junction in cell line W98.14
6432	19200		33.46	3.2E-02	T89397.1	EST_HUMAN	y833h12.x1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:110087 3' similar to contains Alu repetitive element; contains 1 TR1 repetitive element ;
8513	19278	32279	4.14	3.2E-02	AF173845.1	NT	Segulus oedipus tissue kallikrein gene, complete cds
7652	20328	33436	0.84	3.2E-02	11424049	NT	Homo sapiens cytochrome P450, subfamily 11B (phenobarbital-inducible) (CYP2B), mRNA
8169	20593	34030	4.84	3.2E-02	6880596	NT	Mus musculus kinesin family member 3a (Kif3a), mRNA
8339	21531		0.73	3.2E-02	AF108718.1	NT	Homo sapiens chromosome 3 subtelomeric region
9125	21613	34978	1.21	3.2E-02	AI278971.1	EST_HUMAN	gm17604.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1882063 3'
9126	21613	34979	1.21	3.2E-02	AI278971.1	EST_HUMAN	gm17604.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1882063 3'
9857	22005		4.07	3.2E-02	AA179795.1	EST_HUMAN	zg54b12.x1 Soares_pituitary_gland_NHFG Homo sapiens cDNA clone IMAGE:397161 3' similar to gb108441 CYTOCHROME C OXIDASE POLYPEPTIDE III (HUMAN);
10266	22804	36114	0.95	3.2E-02	U68762.1	NT	Macaca mulatta chemokine receptor CCR5 mRNA, complete cds
1237	13999		2.14	3.1E-02	4803418	NT	Homo sapiens dual specificity phosphatase 4 (DUSP4) mRNA
1282	14032	28702	1.72	3.1E-02	P18845	SWISSPROT	NEURONAL ACETYLCHOLINE RECEPTOR PROTEIN, ALPHA-3 CHAIN PRECURSOR (GF-ALPHA-3)
1885	14622	27332	1.09	3.1E-02	6671564	NT	Mus musculus adaptor-related protein complex AP-3, delta subunit (Ap3d), mRNA
1887	14703		1.34	3.1E-02	Z60097.1	NT	Drosophila melanogaster mRNA for headcase protein
5182	17960	30506	1.13	3.1E-02	U78104.1	NT	Human leukemia inhibitory factor receptor (LIFR) gene, promoter and partial exon 1
5276	18081		2.12	3.1E-02	AA278478.1	EST_HUMAN	zs81a03.f1 NCI_CGAP_G0811 Homo sapiens cDNA clone IMAGE:703858 5'
5591	18359	31289	0.74	3.1E-02	BF587742.1	EST_HUMAN	602066783F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4065789 6'
5828	28072	31338	0.59	3.1E-02	AJ391284.1	NT	Neisseria meningitidis DNA for region 2 (flaB- and flaeC-homologs, unknown genes) and flanking genes, strain FAM18
5840	21532	34677	0.46	3.1E-02	BE965092.2	EST_HUMAN	601658379R1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3886281 3'
9831	23579	35778	2.93	3.1E-02	AF034776.1	NT	Enterococcus faecalis surface protein precursor, gene, complete cds
11795	24396	37889	1.78	3.1E-02	675424.1	NT	Mus musculus histidine rich calcium binding protein (Hrc), mRNA
1619	14396		1.98	3.0E-02	AF187125.1	NT	Phykolobus minutus cytochrome oxidase I gene, partial cds; mitochondrial gene for mitochondrial product
2960	15304	28040	0.97	3.0E-02	AA402242.1	EST_HUMAN	z86103.f1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727293 5'
3945	16398	28038	2.78	3.0E-02	AF247644.1	NT	Pseudomonas fluorescens family II aminotransferase gene, complete cds
3728	16480		0.74	3.0E-02	AN620223.1	EST_HUMAN	QV2-ST0288-150200-040-008 ST0288 Homo sapiens cDNA
3928	19679		1.42	3.0E-02	AA394003.1	EST_HUMAN	EST74530 Pituitary gland II Homo sapiens cDNA 5' end
4901	17714	30318	5.63	3.0E-02	AF281074.1	NT	Homo sapiens neurexin 2 (NRP2) gene, complete cds, alternatively spliced
4901	17714	30319	5.83	3.0E-02	AF281074.1	NT	Homo sapiens neurexin 2 (NRP2) gene, complete cds, alternatively spliced
5307	18112		3.43	3.0E-02	AB046783.1	NT	Homo sapiens mRNA for KIAA1573 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6160	16637	31905	1.4	3.0E-02	N98615.1	EST_HUMAN	z393410.1 Sources fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:294908 5' similar to contains element TARI repetitive element:
6160	16637	31906	1.4	3.0E-02	N98615.1	EST_HUMAN	z393410.1 Sources fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:294908 5' similar to contains element TARI repetitive element:
6962	19609	32048	3.32	3.0E-02	AJ242003.1	NT	Cytidine carboxy mRNA for inducible nitric oxide synthase (NOS gene)
6908	19467	32498	2.84	3.0E-02	BE899048.1	EST_HUMAN	801512206F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913848 5'
6908	19467	32499	2.84	3.0E-02	BE899048.1	EST_HUMAN	801512206F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913848 5'
6971	19493	32472	2.16	3.0E-02	AF213884.1	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds
6971	19493	32473	2.16	3.0E-02	AF213884.1	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds
7132	19619	32885	1.4	3.0E-02	M86524.1	NT	Human dyatrophin gene
7493	20155		0.50	3.0E-02	BF246381.1	EST_HUMAN	801854981F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4074548 5'
8025	20720		0.48	3.0E-02	BF697208.1	EST_HUMAN	80215434F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4285654 5'
8538	21231	34373	0.06	3.0E-02	BF353888.1	EST_HUMAN	IL6-IT0704-280050-108-004 HT0704 Homo sapiens cDNA
8992	21384		1.8	3.0E-02	AF276654.1	NT	Oncithrynchus anallus coagulation factor X mRNA, complete cds
10357	23004	36221	1.49	3.0E-02	AE001797.1	NT	Thermoplasma maritima section 109 of 139 of the complete genome
10446	23062	36322	0.49	3.0E-02	Z21211.1	EST_HUMAN	HSAAADTHS TEST1: Human adult Testis tissue Homo sapiens cDNA clone clem test244 (b)
11197	23982	37148	2.73	3.0E-02	M81357.1	NT	Human coagulation factor VII (F7) gene exon 1 and factor X (F10) gene, exon 1
11690	24285	37607	7.75	3.0E-02	AA453216.1	EST_HUMAN	ne8704.s1 NC1 CGAP_K041 Homo sapiens cDNA clone IMAGE:511283
12243	25389	30618	2	3.0E-02	R32019.1	EST_HUMAN	yH36304.s1 Sources placenta Nk2-IP Homo sapiens cDNA clone IMAGE:134407 3'
12987	24909		2.48	3.0E-02	AW805985.1	EST_HUMAN	QV4-NN0038-270400-187-N05 NN0038 Homo sapiens cDNA
12929	25393		2.06	3.0E-02	AF048867.1	NT	Rattus norvegicus UDP-Gal:glucosyltransferase mRNA, complete cds
2436	16594	27891	1.27	2.0E-02	AF228703.1	NT	Homo sapiens mitochondrial glutathione reductase and cytosolic glutathione reductase (GRD1) gene, complete cds, alternatively spliced
2990	15759	28402	1.04	2.0E-02	BE66844.1	EST_HUMAN	801338428F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3880685 5'
2990	15756	28403	1.04	2.0E-02	BE66844.1	EST_HUMAN	801338428F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3880685 5'
3408	16959	28299	0.89	2.0E-02	H72805.1	EST_HUMAN	yH6710.1 Sources fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:233130 5'
5672	18764	31715	0.97	2.0E-02	AF090221.1	EST_HUMAN	Sus scrofa deoxythymine kinase II mRNA, complete cds
6189	18676	31683	7.39	2.0E-02	BF032233.1	EST_HUMAN	801452861F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3885598 5'
6855	18555	32595	0.56	2.0E-02	AJ391284.1	NT	Nisseria meningitidis DNA for region 2 (flaB- and flac-homologs, unknown genes) and flanking genes, strain FAM18
7148	18635	32904	12.03	2.0E-02	BE271437.1	EST_HUMAN	801140729F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049830 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7967	20562	33723	0.87	2.9E-02	AF129279.1	NT	Buchnera aphidicola natural-host Schlotheimia chionensis gluconate-6-phosphatase dehydrogenase (gnd) gene, partial cds
7967	20562	33724	0.87	2.9E-02	AF129279.1	NT	Buchnera aphidicola natural-host Schlotheimia chionensis gluconate-6-phosphatase dehydrogenase (gnd) gene, partial cds
8568	22211	35390	2.49	2.9E-02	AW876979.1	EST_HUMAN	CH3-P70014-071269-051-c04 PT0014 Homo sapiens cDNA
8568	22211	35397	2.49	2.9E-02	AW876979.1	EST_HUMAN	CH3-P70014-071269-051-c04 PT0014 Homo sapiens cDNA
8774	22425		0.76	2.9E-02	AW876997.1	EST_HUMAN	EST1398708 MAGC resequencing, MAGN Homo sapiens cDNA
10243	22861	36103	1.25	2.9E-02	AP000064.1	NT	Aeropyrum pernix genomic DNA, section 777
10877	17602	30590	1.91	2.9E-02	X55294.1	NT	Sheep gene for ultra high-sulphur keratin protein
562	13335		0.96	2.9E-02	AW1970163.1	EST_HUMAN	EST1382234 MAGC resequencing, MAGK Homo sapiens cDNA
3390	16119	26175	1.3	2.8E-02	AF090063.1	NT	Homo sapiens retinal fasciclin (FSCN2) gene, exon 2
3390	16119	26176	1.3	2.8E-02	AF090063.1	NT	Homo sapiens retinal fasciclin (FSCN2) gene, exon 2
5400	18200	30505	11.82	2.8E-02	BE741083.1	EST_HUMAN	801594078F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3048067 5'
6711	19626	32670	1.15	2.8E-02	U78990.1	EST_HUMAN	y021008.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108855 5'
8228	20520	34068	1.01	2.8E-02	AJ005820.1	NT	Chlorostigma plantaginifolium mRNA for homeodomain leucine zipper protein (hb-1)
8915	21806	34749	0.85	2.8E-02	AA280762.1	EST_HUMAN	z89608.1 NCJ CGAP_GCB1 Homo sapiens cDNA clone IMAGE:711486 5'
9109	21799	34690	1	2.8E-02	AF187872.1	NT	Carla porcellus inwardly-rectifying potassium channel K2.1 (KCNJ2) gene, complete cds
8212	21891	30658	0.96	2.8E-02	AE001092.1	NT	Archaeoglobus fulgidus section 15 of 172 of the complete genome
12528	26229		1.5	2.8E-02	R06986.1	EST_HUMAN	y12902.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:126675 5'
12530	24878		1.48	2.8E-02	X06322.1	NT	Yeast CN31C chromosome III RAHS DNA (right arm transcription hot-spot)
							Human germ-line T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TORBV27S1P, TORBV22S1A2N1T, TORBV51A1N1T, TORBV51A1N2T, TORBV51A1N1T, TORBV13S3, TORBV6S7P, TORBV7S3A2T, TORBV13S2A1T, TORBV6S2A2PT, TORBV7S2A1N1T, TORBV13S3P13S>
1472	14219	28605	1.23	2.7E-02	U66059.1	NT	Arabidopsis thaliana DNA chromosome 4, coding fragment No. 6
3426	16182	28832	1.74	2.7E-02	AL161494.2	NT	y08812.1 Soares multiple sclerosis 2NB-HMSP Homo sapiens cDNA clone IMAGE:260487 5'
4179	16618	29545	1.92	2.7E-02	N47258.1	EST_HUMAN	y08812.1 Soares multiple sclerosis 2NB-HMSP Homo sapiens cDNA clone IMAGE:260487 5'
4179	16618	29546	1.92	2.7E-02	N47258.1	EST_HUMAN	y08812.1 Soares multiple sclerosis 2NB-HMSP Homo sapiens cDNA clone IMAGE:260487 5'
6355	18158	30941	1.2	2.7E-02	R12245.1	EST_HUMAN	SP-CJ2284 JC2284 TISSUE FACTOR PATHWAY INHIBITOR - RHESUS ;
5912	18901	31529	0.86	2.7E-02	X61870.1	NT	T. aestivum pTH20 mRNA for wheat type V thionin
8685	18671	31612	0.84	2.7E-02	AB004798.1	NT	Oryza sativa mRNA for scorbutic oxidase, partial cds
8605	19270		0.93	2.7E-02	X07580.1	NT	A. bisporus pgkA gene
6607	19449	32467	2.29	2.7E-02	AA983571.1	EST_HUMAN	cd06103.s1 Soares, total_fetus_Nb2-HF8, 9w Homo sapiens cDNA clone IMAGE:1624861 3'

Page 153 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8252	20848			1.08	AI377036.1	EST_HUMAN	h22g08.x1 Soares, total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:2065982 3' similar to contains Alu repetitive element
8514	21206	34349	0.49	2.7E-02	S43442.1	NT	transmembrane secretory component [human, leukocytes, Genomic, 657 nt, segment 4 of 11]
558	13340	26688	1.12	2.6E-02	AL163262.2	NT	Homo sapiens chromosome 21 segment HS21C082
2366	15088	27825	3.29	2.6E-02	AA490021.1	EST_HUMAN	ab02002.s1 Stragarski fetal retina 837202 Homo sapiens cDNA clone IMAGE:839593 3'
2368	15090	27827	4.49	2.6E-02	6754241	NT	Mus musculus histidine rich calcium binding protein (Hrc), mRNA
2368	16090	27828	4.49	2.6E-02	6754241	NT	Mus musculus histidine rich calcium binding protein (Hrc), mRNA
2916	15682		1.88	2.6E-02	AF106906.1	NT	Mus musculus MHC class III region RD gene, partial cds; Bf, C2, G9A, NG22, G9, HSP70, HSP70, HSC70, and snRNP genes, complete cds; G7A gene, partial cds; and unknown genes
4847	17577	30200	2.25	2.6E-02	L12032.1	NT	Chicken dorsal-1 mRNA, complete cds
5005	17726	30332	1.58	2.6E-02	AE002014.1	NT	Deltacoccus radiodurans R1 section 181 of 229 of the complete chromosome 1
5032	17752	30364	2.35	2.6E-02	AW241154.1	EST_HUMAN	h222004.x1 NCL CGAP_Sar4 Homo sapiens cDNA clone IMAGE:2570383 3' similar to SW:Y068_HUMAN Q15041 HYPOTHETICAL PROTEIN KIAA0099
5764	18546		0.7	2.6E-02	AL161563.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 63
5800	18590		0.59	2.6E-02	AL161563.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 63
6125	18603		7.34	2.6E-02	AI206030.1	EST_HUMAN	g27111.x1 NCL CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1762317 3'
6331	18101	32089	1.9	2.6E-02	BE621748.1	EST_HUMAN	6014934731 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3866578 3'
6728	18562	32563	0.9	2.6E-02	Z99064.1	NT	Vaccinia virus ORF1L, strain Wyeth
6728	18562	32564	0.9	2.6E-02	Z99064.1	NT	Vaccinia virus ORF1L, strain Wyeth
6810	19471	32404	7.11	2.6E-02	6981271	NT	Rattus norvegicus Nerve growth factor receptor, fast (Ngfr), mRNA
8403	21086	34232	0.71	2.6E-02	AA860948.1	EST_HUMAN	h222004.s1 Soares, testis, NIH Homo sapiens cDNA clone IMAGE:1409719 3'
9290	22014	36182	1.15	2.6E-02	11432020	NT	Homo sapiens KIAA1070 protein (KIAA1070), mRNA
9614	22287	35453	0.75	2.6E-02	AF114682.1	NT	Saccharomyces cerevisiae NRRL Y-12638(T) ATP synthase subunit 9 (ATP9) gene, mitochondrial gene encoding mitochondrial protein, complete cds
9614	22287	35454	0.75	2.6E-02	AF114682.1	NT	Saccharomyces cerevisiae NRRL Y-12638(T) ATP synthase subunit 9 (ATP9) gene, mitochondrial gene encoding mitochondrial protein, complete cds
10303	22560	36186	4.39	2.6E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
11181	23896		1.87	2.6E-02	4909406	NT	Homo sapiens radixin (RDX) mRNA
11391	24049		2.33	2.6E-02	AA276351.1	EST_HUMAN	z84402.1 NCL CGAP_GC81 Homo sapiens cDNA clone IMAGE:704162 5'
11553	24162	37465	2.2	2.6E-02	AW500547.1	EST_HUMAN	UHF-BNO-adj-10-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077496 5'
12170	26378	30615	2.08	2.6E-02	BF343827.1	EST_HUMAN	6020155011 NCL CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4150944 5'
519	13303	25635	1.75	2.6E-02	AJ793190.1	EST_HUMAN	on2806.y5 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:157827 5'
519	13303	25636	1.75	2.6E-02	AJ793190.1	EST_HUMAN	on2806.y5 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:157827 5'
791	13503	26224	16.9	2.6E-02	BE974314.1	EST_HUMAN	60198030R2 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3650665 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
949	13819	26288	7.2	2.5E-02	BE974314.1	EST_HUMAN	601680305R2 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3960665 3'
2768	15471		2.24	2.5E-02	U12571.1	NT	Rattus norvegicus rap1b11-3A mRNA, complete cds
2958	16722	28371	4.35	2.5E-02	X09697.1	NT	H. carassius mRNA for fucosyltransferase III c binding protein, Fcp1
2968	15722	28372	4.35	2.5E-02	X09697.1	NT	H. carassius mRNA for fucosyltransferase III c binding protein, Fcp1
4023	17878	26389	1	2.5E-02	BE701185.1	EST_HUMAN	PM2-NN0128-080700-001-e12 NN0128 Homo sapiens cDNA
4023	17879	29400	1	2.5E-02	BE701186.1	EST_HUMAN	PM2-NN0128-080700-001-e12 NN0128 Homo sapiens cDNA
4182	16922	29550	4.23	2.5E-02	AW62114.1	EST_HUMAN	H26108.x1 Sores, NFL, I, GRC, S1 Homo sapiens cDNA clone IMAGE:2934015 3'
5625	18422	31335	0.61	2.5E-02	AT92776.1	EST_HUMAN	z83c10.x5 Sores overy tumor N8HOT Homo sapiens cDNA clone IMAGE:81054 3'
6100	18878		5.01	2.5E-02	BE970128.1	EST_HUMAN	783a09.x1 NCI_CGAP_Luz24 Homo sapiens cDNA clone IMAGE:3284008 3' similar to contains L1, L1 repetitive element
6115	18993		4.1	2.5E-02	BE748888.1	EST_HUMAN	601679330F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3628054 5'
6244	19018	31892	1.04	2.5E-02	U26028.1	NT	Chlamydomonas reinhardtii VSP-3 mRNA, complete cds
7563	20233	33336	1.7	2.5E-02	BF626722.1	EST_HUMAN	602070562F1 NCI_CGAP_Bme4 Homo sapiens cDNA clone IMAGE:4210408 5'
7563	20233	33337	1.7	2.5E-02	BF626722.1	EST_HUMAN	602070562F1 NCI_CGAP_Bme4 Homo sapiens cDNA clone IMAGE:4210408 5'
8724	21416	34550	0.81	2.5E-02	Q81713	SWISSPROT	CHORDIN PRECURSOR (ORGANIZER-SPECIFIC SECRETED DORSALIZING FACTOR)
8863	21554	34999	0.47	2.5E-02	AW025821.1	EST_HUMAN	w108c10.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2516370 3'
8968	22914		0.55	2.5E-02	X71303.1	NT	D. radiolan 26S ribosomal RNA, D2 domain
10482	23128	36336	0.65	2.5E-02	A1147016.1	EST_HUMAN	q622a08.x1 Sores, pregnant uterus_NHHPU Homo sapiens cDNA clone IMAGE:1695982 3'
10712	23401	36840	2.01	2.5E-02	Q10335	SWISSPROT	HYPOTHETICAL 46.7 KD PROTEIN C19G10.05 IN CHROMOSOME 1
10712	23401	36841	2.01	2.5E-02	Q10335	SWISSPROT	HYPOTHETICAL 46.7 KD PROTEIN C19G10.05 IN CHROMOSOME 1
10773	23465	36700	2.32	2.5E-02	AJ237838.1	NT	Bos taurus partial stat6B gene, exons 17-19
10795	23478		3.46	2.5E-02	AF060187.1	NT	Mus musculus major histocompatibility locus class II region: major histocompatibility protein class II alpha chain (IiAlpha) and major histocompatibility protein class II beta chain (IiBeta) genes, complete cds; b2b00111-1e (N08), b2b00111-1e
11770	24381		2.55	2.5E-02	AB007546.1	NT	Homo sapiens gene for LECT2, complete cds
12134	25311		2.88	2.5E-02	11432078.1	NT	Homo sapiens similar to ALEX3 protein (H. sapiens) (LOC383634), mRNA
12311	25182		1.76	2.5E-02	11433220.1	NT	Homo sapiens similar to ALEX3 protein (H. sapiens) (LOC383634), mRNA
12432	24804	31043	1.94	2.5E-02	BE73327.1	EST_HUMAN	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
1563	14939	27028	1.7	2.4E-02	H66884.1	EST_HUMAN	9070652365F2 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:3935513 3'
2037	15594	27601	1.92	2.4E-02	P01901	SWISSPROT	y77411.1 Sores fetal liver spleen, INFEL Homo sapiens cDNA clone IMAGE:211149 5'
2037	15594	27602	1.92	2.4E-02	P01901	SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-8 ALPHA CHAIN PRECURSOR (H-2K(B))
4335	17074	28702	1.85	2.4E-02	J05110.1	NT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-8 ALPHA CHAIN PRECURSOR (H-2K(B))
4465	17220	29847	1.58	2.4E-02	P01901	SWISSPROT	T. thermophila calcium-binding 25 kDa (CBP 25) protein mRNA, complete cds
4465	17220	29848	1.58	2.4E-02	P01901	SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-8 ALPHA CHAIN PRECURSOR (H-2K(B))

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5068	17787	30403	0.95	2.4E-02	8622702	NT	Homo sapiens hypothetical protein FL10844 (FL10844), mRNA
6121	19889	31887	0.9	2.4E-02	W88880.1	EST_HUMAN	zh33h04.s1 Scores: fetal liver spleen 1NFLS ST Homo sapiens cDNA clone IMAGE:416791 3'
6267	19040	32016	0.59	2.4E-02	M31650.1	NT	Chicken myristoylated alanine-rich C kinase substrate (MARCKS) mRNA, complete cds
6267	19040	32017	0.58	2.4E-02	M31650.1	NT	Chicken myristoylated alanine-rich C kinase substrate (MARCKS) mRNA, complete cds
7121	19809	32875	0.8	2.4E-02	Z20573.1	EST_HUMAN	H5AACKVX.T, Human adult Rhabdomyosarcoma cell-line Homo sapiens cDNA
7138	19825	32892	0.9	2.4E-02	X12025.1	NT	Rat gene for uncoupling protein (UCP)
7138	19825	32893	0.9	2.4E-02	X12025.1	NT	Rat gene for uncoupling protein (UCP)
7781	20488		0.72	2.4E-02	AW813007.1	EST_HUMAN	RC3-ST0186-230300-019-H06 ST0186 Homo sapiens cDNA
7844	20539		0.5	2.4E-02	M16780.1	NT	Human retinoblastoma 3' long terminal repeat
8340	21033		0.86	2.4E-02	H78376.1	EST_HUMAN	wt1205.s1 Scores: fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:233576 3' similar to contains Alu repetitive element; contains A3R repetitive element;
8429	21122	34280	0.78	2.4E-02	N60442.1	EST_HUMAN	zh35g11.s1 Scores: fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:294580 3' similar to
8885	21579	34718	0.57	2.4E-02	AE001125.1	NT	gb K02009 RA1SR7K Rat (rRNA); contains A3Rb1 A3R repetitive element;
8907	21598	34740	0.78	2.4E-02	AA025680.1	EST_HUMAN	Bornella burgdorferi (section 11 of 70) of the complete genome
9391	22244	35427	0.52	2.4E-02	AF124100.1	NT	zib1c06.s1 Scores: testis 1NHT Homo sapiens cDNA clone IMAGE:745354 3' similar to gb J04422 SLET XTR repetitive element;
9591	22244	35428	0.52	2.4E-02	AF124100.1	NT	Arabidopsis thaliana methylglutathione synthase (gms5) gene, complete cds
9703	22357	35553	2.38	2.4E-02	AV082854.1	EST_HUMAN	AV082854 GK Homo sapiens cDNA clone GK025003 5'
9881	22831	35728	2.73	2.4E-02	AA463804.1	EST_HUMAN	nt07b12.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:394353 similar to contains Alu repetitive element; contains element PTRS repetitive element;
10512	23159		0.48	2.4E-02	BE387111.1	EST_HUMAN	601274822-1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3815802 5'
11565	24164	37475	1.89	2.4E-02	AF108606.1	NT	Mus musculus major histocompatibility locus class III regions Hsc70i gene, partial cds; smRNP, G7A, NC23, Muts homolog, CLCP, NG24, NG25, and NG28 genes, complete cds, and unknown genes
11565	24164	37476	1.89	2.4E-02	AF109005.1	NT	Mus musculus major histocompatibility locus class III regions Hsc70i gene, partial cds; smRNP, G7A, NC23, Muts homolog, CLCP, NG24, NG25, and NG28 genes, complete cds, and unknown genes
11938	24405		2.28	2.4E-02	8627009	NT	Bacteriophage bL87, complete genome
12081	24589	31124	1.81	2.4E-02	8759635	NT	Mus musculus Dmb1 homolog 1 (E. coli) (Dmb1), mRNA
12136	24625	31094	2.37	2.4E-02	BE028860.1	EST_HUMAN	MRO-FTD175-10800-202-406 F10175 Homo sapiens cDNA
12186	24657	31093	1.88	2.4E-02	U78167.1	NT	Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12186	24657	31104	1.86	2.4E-02	U78167.1	NT	Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
12216	24678		1.34	2.4E-02	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
12300	24784		3.88	2.4E-02	AB008569.1	NT	Ceenorhabdites elegans mRNA for iron-sulfur subunit of mitochondrial succinate dehydrogenase, complete cds
1865	14603		4.28	2.3E-02	W08340.1	EST_HUMAN	2854q08.11 Soares, fetal lung, NIH-19W Homo sapiens cDNA clone IMAGE:2982294 5'
1880	14617		10.45	2.3E-02	U64165.1	NT	4 Homo sapiens mammary tumor-associated protein INT6 (INT6) gene, exon 4
2350	15072	27809	2.08	2.3E-02	Z74283.1	NT	S. cerevisiae chromosome IV reading frame ORF YDL245c
3670	16423	29004	6.18	2.3E-02	Z20377.1	EST_HUMAN	HSAAACACADH P, Human fetal Brain Whole tissue Homo sapiens cDNA
3702	18455		0.8	2.3E-02	Z2429.1	NT	Canis beta-galactosidase-binding lectin (LGALS3) mRNA, 3' end
4129	18671	29460	1.08	2.3E-02	Z24789.1	NT	Gallus gallus connexin 43.6 (Cx43.6) gene, complete cds
4129	18671	29600	1.08	2.3E-02	Z24789.1	NT	Gallus gallus connexin 43.6 (Cx43.6) gene, complete cds
4386	17123	26755	0.83	2.3E-02	AW890107.1	EST_HUMAN	CM4-NN0080-200400-180-504 NN0080 Homo sapiens cDNA
4415	17152	26780	0.88	2.3E-02	BE585225.1	EST_HUMAN	CM3-MT0118-010800-318-g07 MT0118 Homo sapiens cDNA
4415	17152	26781	0.88	2.3E-02	BE585225.1	EST_HUMAN	CM3-MT0118-010800-318-g07 MT0118 Homo sapiens cDNA
4416	17880	26782	1.14	2.3E-02	AW563993.1	EST_HUMAN	xx25508.x1 NC1 CGAP U2 Homo sapiens cDNA clone IMAGE:2770871 3'
4416	17880	26783	1.14	2.3E-02	AW563993.1	EST_HUMAN	xx25508.x1 NC1 CGAP U2 Homo sapiens cDNA clone IMAGE:2770871 3'
4553	17290	26818	2.86	2.3E-02	BF028487.1	EST_HUMAN	6018727279F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955386 5'
4556	17290	26820	2.96	2.3E-02	BF028487.1	EST_HUMAN	6018727279F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955386 5'
5291	18096	30756	3.63	2.3E-02	U68503.1	NT	Caedibacter neoautotrophicus lipopolysaccharase IV PafE subunit (pafE) gene, complete cds, and propionyl-CoA carboxylase beta chain (pcoB) homolog gene, partial cds
6522	19288	32292	4.08	2.3E-02	AL161606.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 17
6883	17659	30613	0.69	2.3E-02	BE141476.1	EST_HUMAN	MR0-HT0080-011000-002-009 HT0080 Homo sapiens cDNA
7778	20472	33595	6.28	2.3E-02	U68101.1	NT	Human plectin (PLEC1) gene, exons 3-32, and complete cds
8370	21053	34204	0.94	2.3E-02	AJ268105.1	NT	Homo sapiens PDXT1 gene for lipoyl-containing component X, exons 1-11
8370	21053	34205	0.94	2.3E-02	AJ268105.1	NT	Homo sapiens PDXT1 gene for lipoyl-containing component X, exons 1-11
8567	21289	34429	0.68	2.3E-02	AF653580.1	EST_HUMAN	wa78h10.x1 Soares, NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2302147 3'
8567	21289	34430	0.68	2.3E-02	AF653580.1	EST_HUMAN	wa78h10.x1 Soares, NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2302147 3'
9038	21728	34880	0.98	2.3E-02	PA11068	SWISSPROT	HYPOPHYSICAL 55.6 KD PROTEIN B0280.6 IN CHROMOSOME III PRECURSOR
9759	22410	35917	0.77	2.3E-02	P60832	SWISSPROT	CHROMOSOME ASSEMBLY PROTEIN XCAP-C
9829	22577	35776	1.33	2.3E-02	AE000189.1	NT	Escherichia coli K-12 MG1663 section 89 of 400 of the complete genome
9829	22577	35777	1.33	2.3E-02	AE000189.1	NT	Escherichia coli K-12 MG1663 section 89 of 400 of the complete genome
10524	23170	36397	0.48	2.3E-02	AF282894.1	NT	Bacillus licheniformis isolate N57N1 KexA gene, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10882	23373	36615	2.16	2.3E-02	P08640	SWISSPROT	GLUCAMYLASE S182 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN
12058	26166		5.07	2.3E-02	BE278331.1	EST_HUMAN	GLUCOHYDROLASE
12662	24892	30967	2.19	2.3E-02	U33934.1	NT	801176958F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3546567 5'
							Streptomyces sp. alpha-1,3/4-fucosidase precursor gene, complete cds
12616	25409		2.42	2.3E-02	U11077.1	NT	Dictyostellum discoideum extracellular signal-regulated protein kinase (ERK1) mRNA, complete cds
12607	25260		1.62	2.3E-02	11426368	NT	Homo sapiens dead ringer (Drocephala) like 1 (DRLE1), mRNA
720	13484	26147	4.13	2.2E-02	AF018287.1	NT	Columbia liva nucleotide diphosphate kinase (NDPK) gene, nuclear gene encoding mitochondrial protein, complete cds
1741	14483		1.38	2.2E-02	4657448	NT	Homo sapiens chromodomain helicase DNA binding protein 2 (CHD2) mRNA
1765	14497	27197	1.06	2.2E-02	P07313	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SKELETAL MUSCLE (MLCK)
1755	14497	27198	1.06	2.2E-02	P07313	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SKELETAL MUSCLE (MLCK)
2008	14743	27469	2.13	2.2E-02	Z82001.1	NT	S. pneumoniae popA gene and open reading frames
3428	16186		1.49	2.2E-02	AA577765.1	EST_HUMAN	m24604.01 NCI_CGAP_Gast Homo sapiens cDNA clone IMAGE:1084782 3'
3637	16390		4.01	2.2E-02	AF083084.1	NT	Infectious bursal disease virus segment B strain IL4 VP-1 gene, complete cds
3834	16565	29221	1.26	2.2E-02	AW601317.1	EST_HUMAN	PNC-BT0340-170100-004-b03 BT0340 Homo sapiens cDNA
3998	16649	29280	0.75	2.2E-02	Z74293.1	NT	S. cerevisiae chromosome IV reading frame ORF YDL245c
5006	17729	30333	1.05	2.2E-02	Z73597.1	NT	S. cerevisiae chromosome XVI reading frame ORF YPL241c
7146	19833	32902	3.63	2.2E-02	AV690721.1	EST_HUMAN	AV690721 GKB Homo sapiens cDNA clone GKBAND03 3'
8269	20963	34104	1.62	2.2E-02	AL161515.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 27
8269	20963	34105	1.62	2.2E-02	AL161515.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 27
8709	21401	34546	0.82	2.2E-02	X76468.1	NT	P. vulgaris alpha tub 2 mRNA
9596	22239	35422	2.22	2.2E-02	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
9596	22239	35423	2.22	2.2E-02	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
10105	22763		0.86	2.2E-02	6678140	NT	Mus musculus Sjogren syndrome antigen A1 (Ssa1), mRNA
11167	23634	37116	1.06	2.2E-02	BE797001.1	EST_HUMAN	801584309F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3638571 5'
11841	24425	37768	1.54	2.2E-02	11426362	NT	Homo sapiens transmembrane protein 1 (TMEM1), mRNA
12315	24737		4.07	2.2E-02	AA503553.1	EST_HUMAN	ne4707.a1 NCI_CGAP_O68 Homo sapiens cDNA clone IMAGE:800541 3' similar to contains Alu repetitive element
410	13195		6.11	2.1E-02	AV761502	EST_HUMAN	AV761502 MDS Homo sapiens cDNA clone MDSAD301 5'
436	13222		9.98	2.1E-02	AF029728.1	NT	Dictyostellum discoideum histidine kinase C (dhkC) mRNA, complete cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1240	13989	26356	10.32	2.1E-02	U72073.1	NT	Bacillus subtilis cotKLM cluster, CotK (cotK), CotL (cotL), and spore coat protein CotM (cotM) genes, complete cds
1366	14113	26787	1.21	2.1E-02	AF204305.1	NT	Mus musculus macrophage migration inhibitory factor (MIF) gene, 5' flanking region and partial cds
1366	14113	26788	1.21	2.1E-02	AF204305.1	NT	Mus musculus macrophage migration inhibitory factor (MIF) gene, 5' flanking region and partial cds
1776	14517	27218	1.06	2.1E-02	P02438	SWISSPROT	KERATIN, HIGH-SULFUR MATRIX PROTEIN, B2A
1776	14517	27219	1.06	2.1E-02	P02438	SWISSPROT	KERATIN, HIGH-SULFUR MATRIX PROTEIN, B2A
1776	14517	27220	1.06	2.1E-02	P02438	SWISSPROT	KERATIN, HIGH-SULFUR MATRIX PROTEIN, B2A
2028	14763	27492	1.2	2.1E-02	BE072546.1	EST_HUMAN	PM2-BT0546-120100-001-411 BT0546 Homo sapiens cDNA
2028	14763	27493	1.2	2.1E-02	BE072546.1	EST_HUMAN	PM2-BT0546-120100-001-411 BT0546 Homo sapiens cDNA
2591	15305	28041	1.32	2.1E-02	AA225065.1	EST_HUMAN	nc21053.1 NCI CGAP_P11 Homo sapiens cDNA clone IMAGE:1008820
2819	13334	26783	4.48	2.1E-02	N29260.1	EST_HUMAN	YK3H07.71 Soares melanocyte ZNF111 Homo sapiens cDNA clone IMAGE:204541 5'
3147	14763	27492	1.07	2.1E-02	BE072546.1	EST_HUMAN	PM2-BT0546-120100-001-411 BT0546 Homo sapiens cDNA
3147	14763	27493	1.07	2.1E-02	BE072546.1	EST_HUMAN	PM2-BT0546-120100-001-411 BT0546 Homo sapiens cDNA
3571	16326	26973	1	2.1E-02	AA461271.1	EST_HUMAN	cd3008.71 Soares fetal fibroblast N2ZF18, 5' Homo sapiens cDNA clone IMAGE:786121 5'
4110	18953	20480	0.81	2.1E-02	Z74263.1	NT	S.cerevisiae chromosome IV resulting frame ORF YDL245c
4275	17014	29841	0.81	2.1E-02	BF343655.1	EST_HUMAN	902016309F1 NCI CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4151161 5'
4410	17147	29775	1.47	2.1E-02	U44914.1	NT	Borrelia burgdorferi plasmid cp32-2, erpC and erpD genes, complete cds, and unknown genes
4421	17157	29788	1.53	2.1E-02	A1768127.1	EST_HUMAN	wg81d11.x1 Soares NSF_F8_gw_OT_PA_P_S11 Homo sapiens cDNA clone IMAGE:2371509 3'
4461	17197		0.89	2.1E-02	Y19213.1	NT	Homo sapiens putative palindromic pseudogene for hair keratin, exons 2 to 7
4982	17396	30031	4.61	2.1E-02	Y08501.1	NT	A.thaliana mitochondrial genome, part A
4762	17494	30122	0.76	2.1E-02	AL168302.2	NT	Homo sapiens chromosome 21 segment HS21C102
4760	17501	30124	0.76	2.1E-02	AI82432.1	EST_HUMAN	wis4a05.x1 NCI CGAP_Kd111 Homo sapiens cDNA clone IMAGE:2384628 3'
5553	18350	31259	1.13	2.1E-02	AW379528.1	EST_HUMAN	GM4-HT0244-111189-040-05 HT0244 Homo sapiens cDNA
6906	19446	32498	0.88	2.1E-02	BF086199.1	EST_HUMAN	CV3-GM0058-120000-329-412 GM0058 Homo sapiens cDNA
8417	21110	34249	0.6	2.1E-02	9700238	NT	Mus musculus coding region 1 (Sirt1), mRNA
9403	22065	35236	0.6	2.1E-02	A4864288.1	EST_HUMAN	emb3607.s1 Stragene echino brain S11 Homo sapiens cDNA clone IMAGE:1629732 3' similar to contains
9531	22184	35368	2.61	2.1E-02	AJ243213.1	NT	Alu repetitive element contains element MER11 repetitive element;
9531	22184	35369	2.61	2.1E-02	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
9531	22184	35369	2.61	2.1E-02	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
9883	22533	35730	1.15	2.1E-02	L26324.1	NT	Streptococcus pneumoniae integrase, endonuclease, repressor protein, release, UmuC MucB homolog, and UmuD MucA homolog genes, complete cds, and unknown genes
9901	22609	35814	0.89	2.1E-02	A4864288.1	EST_HUMAN	emb3607.s1 Stragene echino brain S11 Homo sapiens cDNA clone IMAGE:1629732 3' similar to contains
10522	23168	36395	0.45	2.1E-02	AP001519.1	NT	Alu repetitive element contains element MER11 repetitive element;
							Bacillus halodurans genomic DNA, section 13/14

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11479	24080	37301	1.38	2.1E-02	6754255	NT	Mus musculus heat shock protein, 74 kDa, A (Hsp40a), mRNA
12298	17197		8.82	2.1E-02	Y18213.1	NT	Homo sapiens putative pathHDA pseudogene for hair keratin, exons 2 to 7
12330	25163	30901	1.89	2.1E-02	U34170.1	NT	Human germline UBE1L gene similar to the gene for ubiquitin-activating enzyme, exons 1-22
12714	24088	30989	5.71	2.1E-02	AF183913.1	NT	Azospirillum brasilense major outer membrane protein OmsA precursor (omsA) gene, complete cds
16	12844	26457	1.1	2.0E-02	BF002332.1	EST_HUMAN	7g51c08.x1 NCJ CGAP P-28 Homo sapiens cDNA clone IMAGE:3309068 3' similar to contains MER1.83
17	12845	26458	14.4	2.0E-02	AF065955.1	EST_HUMAN	MER1 repetitive element;
282	13081	26989	3.76	2.0E-02	6753935	NT	QY4-NN0036-270400-187-105 NN0038 Homo sapiens cDNA
288	13094	26736	2.72	2.0E-02	AA456538.1	EST_HUMAN	Mus musculus Dmb homolog 1 (E. coli) (Dmb1), mRNA
781	13553	26214	2.11	2.0E-02	6753935	NT	ant5b10.f1 Soares NIHMPU_S1 Homo sapiens cDNA clone IMAGE:813307.5
1095	13823	26483	1.6	2.0E-02	AL006803.1	NT	Mus musculus Dmb homolog 1 (E. coli) (Dmb1), mRNA
1177	13930	26595	1.17	2.0E-02	8022301	NT	Homo sapiens genomic region containing hypervariable minisatellites chromosome 1[1338.33] of Homo sapiens
1177	13930	26598	1.17	2.0E-02	8022301	NT	Homo sapiens hypodermal protein FLJ10379 (FLJ10379), mRNA
1896	14604	27313	2.39	2.0E-02	8022453	NT	Homo sapiens hypodermal protein FLJ10488 (FLJ10488), mRNA
1898	14604	27314	2.39	2.0E-02	8022453	NT	Homo sapiens hypodermal protein FLJ10488 (FLJ10488), mRNA
2801	15506		3.24	2.0E-02	AL101832.2	NT	Homo sapiens hypodermal protein FLJ10488 (FLJ10488), mRNA
3077	12844	26457	2.11	2.0E-02	BF002332.1	EST_HUMAN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32
3141	19605		1.4	2.0E-02	7305474	NT	7g51c08.x1 NCJ CGAP P-28 Homo sapiens cDNA clone IMAGE:3309068 3' similar to contains MER1.83
3221	15084		2.35	2.0E-02	AF065688.1	NT	MER1 repetitive element;
3988	18736	29370	1.3	2.0E-02	M18095.1	NT	Mus musculus serin domain, transmembrane domain (TM), and cytoplasmic domain, (seraphorin) 6B (Seraph6B), mRNA
5548	18345	31284	0.98	2.0E-02	U34778.1	NT	Arabidopsis thaliana G2H2 zinc finger protein FZF mRNA, complete cds
5807	19598	31523	0.7	2.0E-02	L35321.2	NT	P. vulgaris hydroxyproline-rich glycoprotein (HRGP) mRNA, 3' end
7461	20126	33217	1.11	2.0E-02	AP000004.1	NT	Ceanothus laevis elegans arm-2 mRNA, complete cds
7460	20126	33218	1.11	2.0E-02	AP000004.1	NT	Dicystosiphum discoidium class VII unconventional myosin (myosin) gene, complete cds
7460	20126	33218	1.11	2.0E-02	AP000004.1	NT	Pyrococcus horikoshii OT3 genomic DNA, 777001-994000 nt, position (477)
10259	22907	36117	1.62	2.0E-02	A1640342.1	EST_HUMAN	Pyrococcus horikoshii OT3 genomic DNA, 777001-994000 nt, position (477)
10599	22936	30469	1.78	2.0E-02	Z73980.1	NT	Japanese encephalitis virus envelope protein mRNA, partial cds
11344	24034	37937	2.17	2.0E-02	D88184.1	NT	vet17002.x1 NCJ CGAP K1d11 Homo sapiens cDNA clone IMAGE:2268315 3'
11682	24277	37598	2.21	2.0E-02	10947055	NT	Mycobacterium tuberculosis H37Rv complete genome, segment 83/162
11682	24277	37598	2.21	2.0E-02	10947055	NT	Equus caballus DNA for 17alpha-hydroxylase/17,20-lyase, complete cds
11682	24277	37598	2.21	2.0E-02	10947055	NT	Homo sapiens ankyrin 3, node of Ranvier (ankyrin G) (ANKG), transcript variant 1, mRNA
11682	24277	37598	2.21	2.0E-02	10947055	NT	Homo sapiens ankyrin 3, node of Ranvier (ankyrin G) (ANKG), transcript variant 1, mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11860	17000	30505	1.9	2.0E-02	AA45638.1	EST_HUMAN	est15010.1 Soares, NRHMPL_S1 Homo sapiens cDNA clone IMAGE:81307 5'
12336	15003		1.82	2.0E-02	AL161632.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32
12766	28038		6.4	2.0E-02	T80037.1	EST_HUMAN	y04c09.1 Soares Infant brain INIB Homo sapiens cDNA clone IMAGE:24675 5'
677	13452	28095	2.15	1.8E-02	AA572764.1	EST_HUMAN	trf6a07.s1 NCI CGAP_P1 Homo sapiens cDNA clone IMAGE:914160 similar to contains L1.t1 L1 repetitive element
1611	14358	27047	1.15	1.8E-02	PT8488	SWISSPROT	EMPTY SPIRACLES HOMEOTIC PROTEIN
2032	14787	27496	2.88	1.9E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2032	14787	27497	2.88	1.9E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2310	15227	27068	0.97	1.9E-02	AL161650.2	NT	nm04105.s1 NCI CGAP_S51 Homo sapiens cDNA clone IMAGE:1288337 3'
2006	15672	28320	7.48	1.9E-02	AA713958.1	EST_HUMAN	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50
2932	15718	28369	1.88	1.9E-02	AY648686.1	EST_HUMAN	AV648686 GLC Homo sapiens cDNA clone GLCBLH07 3'
3588	16331		1.18	1.9E-02	N62250.1	EST_HUMAN	y228502.s1 Soares, multiple sclerosis_ZNBMSP Homo sapiens cDNA clone IMAGE:284331 3'
3681	18444		9.58	1.9E-02	BE738088.1	EST_HUMAN	601572882.F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3839564 5'
3703	18456	28095	0.95	1.9E-02	AI301183.1	EST_HUMAN	gn04c07.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1897260 3' similar to contains Alu repetitive element
4026	18770	29402	1.48	1.9E-02	AF141040.1	NT	Mycoplasma litans Vira1 precursor (vira1) and Vira2 precursor (vira2) genes, partial cds
4170	18910	29539	1.83	1.9E-02	P09081	SWISSPROT	HOMEOTIC BICOID PROTEIN (PRD-4)
4170	18910	29540	1.83	1.9E-02	P09081	SWISSPROT	HOMEOTIC BICOID PROTEIN (PRD-4)
4504	17239	29872	3.21	1.9E-02	AI452898.1	EST_HUMAN	W48004.x1 Soares, NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2144561 3' similar to contains Alu repetitive element
4951	18227	27068	4.09	1.9E-02	AL161650.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 60
5233	18039	30967	0.99	1.9E-02	AF07352.1	NT	Mus musculus T cell receptor gamma locus, TCR gamma 1 and gamma 3 gene clusters
5382	18182	30872	1.41	1.9E-02	L47572.1	NT	Meleagris gallopavo paracoccuss-2 (PON2) mRNA, complete cds
6701	18405		0.86	1.9E-02	AB018607.1	NT	Drosophila melanogaster gene for glycol-3-phosphate dehydrogenase, complete cds
7001	19693	32744	1.38	1.9E-02	U16241.1	NT	Homo sapiens interferon-gamma receptor alpha chain gene, exon 1
7001	19693	32745	1.38	1.9E-02	U16241.1	NT	Homo sapiens interferon-gamma receptor alpha chain gene, exon 1
8469	21161		1.23	1.9E-02	AL162754.2	NT	Neisseria meningitidis serogroup A strain Z2491 complete genomes, segment 3/7
9230	21809	35082	1.03	1.9E-02	BF316729.1	EST_HUMAN	60186130.F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3125462 5'
9613	22266	35452	0.6	1.9E-02	L10114.1	NT	Nicotiana tabacum type II phytochrome (phyB) gene, complete cds
9945	22593	35706	1.05	1.9E-02	BF068832.1	EST_HUMAN	60185238.F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4076283 5'
10152	22800	36017	0.54	1.9E-02	D94001.1	NT	Synechocystis sp. PCC6803 complete genome, 2027, 2539000-2844794
10881	23372	36814	1.44	1.9E-02	AF008033.1	NT	Vibrio cholerae V68 phage putative replication protein gene, complete cds
12090	25171	30903	2.82	1.9E-02	AF101085.1	NT	Hindoo medialis Intermediates filament gliotin mRNA, complete cds
12040	25147		1.36	1.9E-02	L11088.1	NT	Candida albicans lambda Cax3B fragment

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
338	13137	25772		1.4	AW771104.1	EST_HUMAN	IR52006.x1 NCLGAP_Co17 Homo sapiens cDNA clone IMAGE:3027274 3' similar to contains element
670	13449	26086	0.83	1.8E-02	BF308122.1	EST_HUMAN	MER28 repetitive element ;
1137	13892	26563	1.32	1.8E-02	X17694.1	NT	601894326F1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:4139883 5'
1418	14164	26847	1.73	1.8E-02	AF243382.1	NT	H1fractin mRNA for myelin basic protein (MBP)
2885	15394	28133	1.71	1.8E-02	AE004544.1	NT	Drosophila melanogaster cytoplasmic protein encore (enc) mRNA, complete cds
3205	15688		0.94	1.8E-02	AB05829.1	EST_HUMAN	Pseudomonas aeruginosa PAO1, section 105 of 528 of the complete genome
4065	16810		0.99	1.8E-02	AA881448.1	EST_HUMAN	652009.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2060296 3'
4398	17133	26784	1.17	1.8E-02	AW936663.1	EST_HUMAN	6024064.x1 Scores_testis_NHT_Homo sapiens cDNA clone IMAGE:1408635 3'
6712	19827	32671	5.02	1.8E-02	P14310	SWISSPROT	QV4-DT0021-301298-071-611 DT0021 Homo sapiens cDNA
8026	20724	33657	0.99	1.8E-02	U37091.1	NT	HYPOTHETICAL 7.9 KD PROTEIN IN FXR 5'REGION
8367	21060	34200	0.91	1.8E-02	AW90527.1	EST_HUMAN	Mus musculus carbonic anhydrase IV gene, complete cds
8410	21103	34242	0.8	1.8E-02	6676943	NT	QV2-NH1073-220400-156-H09 NH1073 Homo sapiens cDNA
8392	22054	35226	0.49	1.8E-02	BF241624.1	EST_HUMAN	Mus musculus microtubule-associated protein 2 (Map2), mRNA
8392	22054	35228	0.49	1.8E-02	BF241624.1	EST_HUMAN	601877026F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4105303 5'
8542	22195		2.41	1.8E-02	AA897543.1	EST_HUMAN	601877026F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4105303 5'
8603	22811	35815	1.51	1.8E-02	BE778274.1	EST_HUMAN	602209.x1 Scores_testis_NHT_Homo sapiens cDNA clone IMAGE:1394921 3' similar to gb.L11672 ZINC
10126	22774	35987	1.37	1.8E-02	X96833.1	NT	FINGER PROTEIN 91 (HUMAN);
11414	23181	36408	2.31	1.8E-02	AB002337.2	NT	601463545F1 NIH_MGC 87 Homo sapiens cDNA clone IMAGE:3869983 5'
11414	23181	36410	2.31	1.8E-02	AB002337.2	NT	L1aigella mRNA for myomodulin neuropeptide precursor
11613	24211	37336	1.59	1.8E-02	AP000006.1	NT	Homo sapiens mRNA for KIAA0339 protein, partial cds
11629	24223	37545	3.32	1.8E-02	U82749.1	NT	Homo sapiens mRNA for KIAA0339 protein, partial cds
886	13555	26323	1.86	1.7E-02	BE394869.1	EST_HUMAN	Pycnosopus horikoshi OTS genomic DNA, 116001-148500 nt. position (877)
1783	14524	27230	2.17	1.7E-02	AW573183.1	EST_HUMAN	Zea mays acidic ribosomal protein P2a-3 (pp2a-3) mRNA, partial cds
1783	14524	27231	2.17	1.7E-02	AW573183.1	EST_HUMAN	601310626F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3832190 5'
1864	14902		3.41	1.7E-02	AL163204.2	NT	H34403.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains L1.1 L1 repetitive element ;
2106	14937		10.5	1.7E-02	AB004810.1	NT	H34403.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains L1.1 L1 repetitive element ;
2291	15016	27762	0.99	1.7E-02	S74186.1	NT	Homo sapiens chromosome 21 segment HS21C004
2646	16356		1.01	1.7E-02	7657495	NT	Oryctolagus cuniculus mRNA for mitsugumin/29, complete cds
2698	15762	28411	1.44	1.7E-02	AI147615.1	EST_HUMAN	Oryctolagus cuniculus mRNA for mitsugumin/29, complete cds
							(microsatellite INRA41) (Ovis aries-milieu, Genomix, 361 nt, segment 1 of 2)
							Homo sapiens putative Rub5 GDP/GTP exchange factor homologue (RABEX6), mRNA
							qb22a01.x1 Scores_pregnant_uterus_NH4PU Homo sapiens cDNA clone IMAGE:1869982 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3802	16258		4.67	1.7E-02	AW827388.1	EST_HUMAN	hm4504.x1 NCL CGAP_RDF1 Homo sapiens cDNA clone IMAGE:3015534 3' similar to contains MER19.b1 MER19 repetitive element;
3814	16367		0.73	1.7E-02	R04920	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
4148	16860		1.23	1.7E-02	AA066018.1	EST_HUMAN	ac1904.s1 Stratiotes ovary (#6372717) Homo sapiens cDNA clone IMAGE:856927 3' similar to contains Alu repetitive element; contains element MER24 repetitive element;
4176	16915		2.04	1.7E-02	R02506.1	EST_HUMAN	ye0503.r1 Scarsa fetal liver spleen INFILS Homo sapiens cDNA clone IMAGE:124647 5'
4420	17156	28787	1.49	1.7E-02	A1305278.1	EST_HUMAN	qm0507.x1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1681276 3' similar to gbX62359 ZINC FINGER PROTEIN 30 (HUMAN);
4491	17227	26856	1.76	1.7E-02	AW673183.1	EST_HUMAN	h154403.x1 Scarsa_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2633740 3' similar to contains L1.1 L1 repetitive element;
4686	17400	30034	1.61	1.7E-02	V00041.1	NT	Messenger RNA for angiotensin II (Lopholaima americanum) somatostatin II
4703	17495		5.84	1.7E-02	A1015076.1	EST_HUMAN	ov51602.s1 Scarsa_testis_NHT Homo sapiens cDNA clone IMAGE:1940859 3'
5007	17730	30334	0.60	1.7E-02	6981286	NT	Radius norvegicus N-arginine diester hydrolase 1 (Nrd1), mRNA
5098	17815		0.91	1.7E-02	AJ229041.1	NT	Homo sapiens 859 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3 contains Alu repetitive element;
6035	18815	31775	2.07	1.7E-02	A1790247.1	EST_HUMAN	wg35709.x1 Scarsa_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2367113 3' similar to contains Alu repetitive element;
8484	19251	32250	1.47	1.7E-02	A038280.1	EST_HUMAN	cy65h03.x1 Scarsa_fetal_liver_aplacen_1NFILS_S1 Homo sapiens cDNA clone IMAGE:1672661 3'
8590	19432	32448	1.27	1.7E-02	AF190830.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
7103	19791	32856	2.44	1.7E-02	8400716	NT	Homo sapiens nebulin (NEB), mRNA
7267	19941	33016	1.06	1.7E-02	L07869.1	NT	Human apolipoprotein (a) gene, exon 1
7267	19941	33017	1.06	1.7E-02	L07869.1	NT	Human apolipoprotein (a) gene, exon 1
7642	20307		1.76	1.7E-02	AJ010770.1	NT	Homo sapiens hypoxanthine phosphoribosyl transferase 1-50
8336	20407	33623	0.98	1.7E-02	U21854.1	NT	Caenorhabditis elegans cCAF1 protein gene, complete cds
8598	22251	35437	1.3	1.7E-02	AL040554.1	EST_HUMAN	DKFZP394031.4_J1_494 (synonym: hies3) Homo sapiens cDNA clone DKFZP394031.4 5'
11801	24391	37724	1.38	1.7E-02	5902007	NT	Homo sapiens serum constituent protein (MSE55), mRNA
12831	26337	30716	2.39	1.7E-02	AW003462.1	EST_HUMAN	CH44.N1030.040.000-130-008 NH1030 Homo sapiens cDNA
488	13282		3.19	1.6E-02	AL021629.1	NT	Mycobacterium tuberculosis H37Rv complete genome, segment 13/162
1653	14300	27088	1.04	1.6E-02	Y18989.1	NT	Treponema pallidum flsB2, flsB3 and RID genes for flagellin subunit proteins and CAP protein homologue
2248	14974	27711	0.9	1.6E-02	Q64178	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
2248	14974	27712	0.9	1.6E-02	Q64178	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
2570	15284	28022	1.05	1.6E-02	AJ006345.1	NT	Homo sapiens KVLQ11 gene
2649	16358	28102	1.48	1.6E-02	AA484872.1	EST_HUMAN	ne01006.x1 NCL CGAP_Ewt Homo sapiens cDNA clone IMAGE:910667
2696	15408		0.96	1.6E-02	A3014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds

Page 163 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Even SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3016	15762	28431	0.71	1.6E-02	AF112282.1	NT	Leasea sp. isolate IB4 cytochrome oxidase III gene, partial cds; mitochondrial gene for mitochondrial product
3518	16272	28028	5.9	1.6E-02	AW850652.1	EST_HUMAN	IL3-CT0219-160200-063-C07 CT0219 Homo sapiens cDNA
3830	16681	28216	1.32	1.6E-02	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21G101
4154	16898		2.49	1.6E-02	AF110520.1	NT	Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxidoreductase, NG20, KIFC1, Fes-binding protein, BING1, lapatin, RAGDS-like, KE2, BING4, beta 1,3-galactosyl transferase, and RPS18 genes, complete cds; Scam21 gene, partial
4287	17007	29840	0.97	1.6E-02	AW875407.1	EST_HUMAN	QV2-PT0012-140100-030-007 PT0012 Homo sapiens cDNA
5536	18334	31241	1.26	1.6E-02	6871715	NT	Mus musculus CD8 antigen (CD8), mRNA
6546	19311	32316	2.05	1.6E-02	AB015281.1	NT	Candida albicans CatGCR3 gene, complete cds
6832	19494	32517	1.76	1.6E-02	AB027571.1	NT	Saccharomyces cerevisiae CAD2 gene for cadmium resistance protein, complete cds
6832	19494	32518	1.76	1.6E-02	AB027571.1	NT	Saccharomyces cerevisiae CAD2 gene for cadmium resistance protein, complete cds
7610	20276	33384	0.88	1.6E-02	AL161508.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
8020	20715	33847	0.78	1.6E-02	AJ277882.1	NT	Homo sapiens partial TUB gene for tubby (mouse) homolog and LMO-1 gene for LIM domain only 1 protein
8078	20772		1.88	1.6E-02	X05151.1	NT	Human apoC-II gene for preproapoclipoprotein C-II
8840	22588		2.72	1.6E-02	AF076794.1	NT	Drosophila melanogaster enhancer of polycomb (E(Pc)) mRNA, complete cds
10319	22908	36184	1.29	1.6E-02	AA572818.1	EST_HUMAN	rf19g03.a1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE914280 similar to SW:TELO_RABIT P22924 TELOKIN, [1]
10319	22908	36185	1.29	1.6E-02	AA572818.1	EST_HUMAN	rf19g03.a1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE914280 similar to SW:TELO_RABIT P22924 TELOKIN, [1]
10826	25132	36748	2.38	1.6E-02	Z94828.1	NT	Gallus microsatellite DNA (LEI0260) (=T160E11)
11174	23841	37124	2.64	1.6E-02	AL161508.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
11174	23841	37125	2.64	1.6E-02	AL161508.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
11466	24086	37407	1.54	1.6E-02	AI373558.1	EST_HUMAN	q28610.1 Soares_pregnant_uterus_JNBHPU Homo sapiens cDNA clone IMAGE:2042442 3'
734	13508		23.05	1.5E-02	8623734	NT	Homo sapiens transcription factor (HSA130804), mRNA
2138	14668	27598	4.24	1.5E-02	N39521.1	EST_HUMAN	y47b007.s1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:243925 3'
2172	14901	27035	1.09	1.6E-02	AL161504.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90
3057	15823	28467	1.6	1.5E-02	AJ006216.1	NT	Homo sapiens CACNA1F gene, exons 1 to 48
3057	15823	28468	1.6	1.5E-02	AJ006216.1	NT	Homo sapiens CACNA1F gene, exons 1 to 48
3711	16464	29103	0.88	1.6E-02	BF092942.1	EST_HUMAN	MR4-TN0116-080900-201-512 TN0116 Homo sapiens cDNA
8201	18077	31955	1.98	1.5E-02	Q06711	SWISSPROT	HYPOTHETICAL CALCIUM-BINDING PROTEIN G18B11.04 IN CHROMOSOME 1
7219	16904		1.63	1.5E-02	11487282	NT	Cyanophora paradoxa cyanella, complete genome
7301	16984	33060	1.2	1.6E-02	11418713	NT	Homo sapiens KIAA1009 protein (KIAA1009), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7773	20469	33592	1.63	1.5E-02	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
7781	20476	33602	3.99	1.0E-02	11417739	NT	Homo sapiens val-1 RNA synthetase 2 (VAR52), mRNA
8728	21421	34595	0.9	1.0E-02	BF345954.1	EST_HUMAN	602019135F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4154504 5'
9368	21043		0.61	1.0E-02	AF008774.1	NT	Homo sapiens kinase-related protein isoform 1 mRNA, complete cds
9470	22079	35251	1.47	1.0E-02	D44000.1	NT	Saccharomyces cerevisiae chromosome VI plasmid GapC
9711	22362	35559	0.98	1.0E-02	R32987.1	EST_HUMAN	YH54b10.1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:133531 5'
9711	22362	35560	0.98	1.0E-02	R32987.1	EST_HUMAN	YH54b10.1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:133531 5'
11121	23780	37068	3.49	1.0E-02	L40009.1	NT	Plasmodium falciparum (strain FCR3) variant-specific surface protein (var-2, var-3) genes, complete cds
11163	23830	37109	2.14	1.0E-02	AL111238.1	NT	Babypis chinese strain T4 cDNA library under conditions of nitrogen deprivation
11856	24440	37781	1.38	1.0E-02	AL161492.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 4
12277	25214		1.74	1.0E-02	AW750834.1	EST_HUMAN	RC4-ON0048-140100-011-c11 ON0049 Homo sapiens cDNA
12787	25039		1.45	1.0E-02	AI769127.1	EST_HUMAN	w00803.x1 NCI_CGAP CLL1 Homo sapiens cDNA clone IMAGE:2389493 3' similar to contains Alu repetitive element; contains element MER28 MSR1 repetitive element;
408	13193		2.28	1.4E-02	AE002230.2	NT	Chlamydia pneumoniae AF39, section 58 of 94 of the complete genome
1096	13854	26513	4.42	1.4E-02	7705980	NT	Homo sapiens NESH protein (LOC51225), mRNA
1234	13983		1.24	1.4E-02	U32800.1	NT	Haemophilus influenzae Rd section 115 of 163 of the complete genome
1275	14025		3.77	1.4E-02	U67779.1	NT	Haemophilus influenzae Rd section 115 of 163 of the complete genome
1376	14129		1.45	1.4E-02	AF210854.1	NT	Xenopus laevis neurogranin related 1b (X-NGNR-1b) mRNA, complete cds
1507	14263		1.25	1.4E-02	AV723785.1	EST_HUMAN	Homo sapiens hec3p1 genes, complete cds
							AV723785 HTB Homo sapiens cDNA clone HTBAH111 5'
3207	15970	28622	2	1.4E-02	AF160989.2	NT	Bifidobacterium longum Nc-82 antiporter (nhaB), cytosolic deaminase, and alpha-galactosidase (egl-) genes, complete cds; and N-acetylglucosaminyltransferase protein (nagCxyR) gene, partial cds
3393	16162	28905	1.07	1.4E-02	AW074212.1	EST_HUMAN	360808.x1 NCI_CGAP GU1 Homo sapiens cDNA clone IMAGE:2575763 3'
3478	16234	28988	6.33	1.4E-02	AL161586.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 82
3478	16234	28989	6.33	1.4E-02	AL161586.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 82
3048	18401	29041	8.03	1.4E-02	0606018	NT	Mus musculus histocompatibility 2, complement component factor B (H2-B), mRNA
4455	17191	29817	7.77	1.4E-02	AW902888.1	EST_HUMAN	EST374761 IMAGE resequencing, MAGG Homo sapiens cDNA
4455	17191	29818	7.77	1.4E-02	AW902888.1	EST_HUMAN	EST374761 IMAGE resequencing, MAGG Homo sapiens cDNA
4821	17552	30174	7.21	1.4E-02	BE733142.1	EST_HUMAN	601567403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842280 5'
4821	17552	30175	7.21	1.4E-02	BE733142.1	EST_HUMAN	601567403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842280 5'
5321	19091	32079	5.47	1.4E-02	AA559030.1	EST_HUMAN	nt1c04.s1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1023860 3' similar to contains Alu repetitive element;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12337	25352		1.44	1.3E-02	Z68117.1	NT	Bacillus subtilis complete genome (section 14 of 21), from 2599461 to 2812870
12437	24807		2.41	1.3E-02	0633069	NT	Human herpesvirus 8, complete genome
12807	25145		28.18	1.3E-02	AF152288.1	NT	Human sapientia V1b vesicularin receptor (VPR3) gene, complete cds
345	13145	25783	3.48	1.2E-02	AA059206.1	EST_HUMAN	258901.1 Soares ratine N254-HR Homo sapiens cDNA clone IMAGE:381840 5' similar to contains element
440	13226	25989	1.66	1.2E-02	P38888	SWISSPROT	HYPOPHYSICAL 17.1 KD PROTEIN IN PURS 3 REGION
721	13495	26146	2.02	1.2E-02	AI18322.1	EST_HUMAN	q689412.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1734870 3' similar to contains 1.1 L1
2176	14904	27637	1.81	1.2E-02	AL163213.2	NT	repetitive element
2178	14907	27640	1.71	1.2E-02	AV731704.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C013
2444	15163	27901	1.36	1.2E-02	AW172950.1	EST_HUMAN	AV731704 HTF Homo sapiens cDNA clone HTFBHG11 5'
2642	16163	27901	1.07	1.2E-02	AW172950.1	EST_HUMAN	387400.1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432 3'
3068	16983		0.88	1.2E-02	AA078418.1	EST_HUMAN	387400.1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432 3'
3281	16042	28681	2.1	1.2E-02	R02805.1	EST_HUMAN	387400.1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432 3'
3284	16045	28694	0.92	1.2E-02	AB888894.1	EST_HUMAN	341508.1 Soares placenta NB2HP Homo sapiens cDNA clone IMAGE:546020 5'
4676	17409	30045	0.91	1.2E-02	AB897376.1	EST_HUMAN	3506607.3 Soares_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:308532 3' similar to contains element MER22 repetitive element
							WMS3094.1 NCI_QCAP_UN Homo sapiens cDNA clone IMAGE:2438335 3'
4859	17588	30211	2.03	1.2E-02	U91328.1	NT	Human hereditary hemochromatosis region, histone 2A-like protein gene, hereditary hemochromatosis (HLA-H) gene, RefSeq gene, and sodium phosphate transporter (NPT3) gene, complete cds
4981	17704		1.13	1.2E-02	AG019788.1	NT	Cynops pyrogastrer Cpbuq1 mRNA, partial cds
6026	17748	30358	1.41	1.2E-02	AV731704.1	EST_HUMAN	AV731704 HTF Homo sapiens cDNA clone HTFBHG11 5'
5098	18461	31375	1.73	1.2E-02	D78589.1	NT	Rana rugosa mRNA for calcitriol, complete cds
6026	18906	31767	0.72	1.2E-02	AF046555.1	NT	Homo sapiens wbcet1 (WBCS01) and wbcet5 (WBCS05) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5907	19845	32891	0.46	1.2E-02	AF175412.1	NT	Mus musculus DNA methyltransferase (Dnmt1) gene, exons 2, 3, 4, and 5
7192	19878	32952	1.36	1.2E-02	H02187.1	EST_HUMAN	334h12.1 Soares placenta NB2HP Homo sapiens cDNA clone IMAGE:160695 3'
7212	19897	32972	10.54	1.2E-02	AV732093.1	EST_HUMAN	AV732093 HTF Homo sapiens cDNA clone HTFBHG11 5'
7456	20130	33222	0.57	1.2E-02	BF210650.1	EST_HUMAN	001882349F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:406523 5'
							CAMP-N-ACETYLNEURAMINATE-BETA-GALACTOSAMIDE-ALPHA-2,3-SIALYLTRANSFERASE (BETA-GALACTOSIDE ALPHA-2,3-SIALYLTRANSFERASE) (ALPHA 2,3-ST) (GAL-NA6S) (GAL-BETA-1,3-GALNAc-ALPHA-2,3-SIALYLTRANSFERASE) (ST3GALNA2) (SIAT4-B)
7896	20591	33722	2.18	1.2E-02	Q11205	SWISSPROT	Homo sapiens fringe protein mRNA, partial cds
8092	20788	33917	1.35	1.2E-02	AF163612.1	NT	Homo sapiens fringe protein mRNA, partial cds
8092	20788	33918	1.35	1.2E-02	AF163612.1	NT	Homo sapiens fringe protein mRNA, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8788	21460		1.03	1.2E-02	T76987.1	EST_HUMAN	X72208.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:113774 3'
9539	22192	35376	2.46	1.2E-02	AB031013.1	NT	Norwalk-like Virus genogroup 2 gene for capsid protein, complete cds
9670	22223	35408	1.35	1.2E-02	AJ246003.1	NT	Homo sapiens Spast gene for spastin protein
12034	24559	31112	2.88	1.2E-02	O15534	SWISSPROT	PERIOD CIRCADIAN PROTEIN 1 (CIRCADIAN PACEMAKER PROTEIN RIGU) (HPER)
12015	24922		8.02	1.2E-02	C18119.1	EST_HUMAN	C18119 Human placenta cDNA (TFUGWRA) Homo sapiens cDNA clone GEN-557308 5'
1246	13995	26962	1.49	1.1E-02	AA070364.1	EST_HUMAN	zmb0811.s1 Stragene neuroepithelium (#637281) Homo sapiens cDNA clone IMAGE:530924 3'
1701	14444	27143	1.35	1.1E-02	X75491.1	NT	H.sapiens LIPA gene, exon 4
1701	14444	27144	1.35	1.1E-02	X75491.1	NT	H.sapiens LIPA gene, exon 4
2031	14766	27495	4.92	1.1E-02	BF345263.1	EST_HUMAN	z44006.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:4153908 5'
2880	15647		4.05	1.1E-02	N99523.1	EST_HUMAN	z44006.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:255040 5'
3613	18269	28924	2.98	1.1E-02	A1683508.1	EST_HUMAN	lg8610.x1 NCI CGAP OV23 Homo sapiens cDNA clone IMAGE:255040 5'
4088	18829		0.88	1.1E-02	AW813708.1	EST_HUMAN	O82898 DNA-REPAIR PROTEIN COMPLEMENTING XP-F CELL ;
4778	17510	30132	1.5	1.1E-02	AL046383.2	EST_HUMAN	RC3-ST0197-120200-015-g11 ST0197 Homo sapiens cDNA
							DKF7p588E0924.s1 588 (synonym: huter) Homo sapiens cDNA clone DKF7p588E0924
6057	18837	31789	1	1.1E-02	U06480.1	NT	Bacillus subtilis SpoVK (spvK), YnaB (ynaB), YnaB (yabB), GlnR (glnR), glutamine synthetase (glnA), YnaA (ynaA), YnaB (yabB), YnaC (yacC), YnaD (yadD), YnaE (yaeE), YnaF (ynaF), YnaG (yngC), YnaH (ynah), YnaI (ynai), YnaJ (ynaj), xylan beta-1,4-xylob- (ynab), YnaL (ynal), YnaM (ynam), xylan beta-1,4-xylob-
7497	20169	33261	2.81	1.1E-02	BE149611.1	EST_HUMAN	RC1-HT0256-100300-016-H07 HT0256 Homo sapiens cDNA
8638	21230	34372	0.91	1.1E-02	AW968180.1	EST_HUMAN	QV3-BK0045-220300-128-H02 BK0045 Homo sapiens cDNA
8721	21413	34558	0.67	1.1E-02	CA4803.1	EST_HUMAN	C04803 Human heart cDNA (YnaA) Homo sapiens cDNA clone 3NHIC4040
8800	21492	34639	0.45	1.1E-02	Q61982	SWISSPROT	NEUROGENIC LOCUS NOTCH 3 PROTEIN
9829	22480	35682	2.03	1.1E-02	AA082578.1	EST_HUMAN	z02401.1 Stragene neuroepithelium NT2RAMI 837234 Homo sapiens cDNA clone IMAGE:548328 5'
9894	22642	35854	3.55	1.1E-02	AJ314655.1	EST_HUMAN	EST1168494 Colon carcinoma (HCC) cell line T1 Homo sapiens cDNA 5' end
10900	23580	36630	3.23	1.1E-02	11435505	NT	Homo sapiens T-box 5 (TBX5), mRNA
11923	24484		4.16	1.1E-02	AA068239.1	EST_HUMAN	ab7711.s1 Stragene fetal retina 837202 Homo sapiens cDNA clone IMAGE:855005 3' similar to contains
12678	18629		1.62	1.1E-02	AW613796.1	EST_HUMAN	Alu repetitive element
6	12833	25448	9.16	1.0E-02	AW948120.1	EST_HUMAN	RC3-ST0197-120200-016-g11 ST0197 Homo sapiens cDNA
1613	14260	26946	1.56	1.0E-02	AV3368128.1	EST_HUMAN	MR3-CT0176-111069-003-g10 CT0176 Homo sapiens cDNA
2877	15291		1.67	1.0E-02	AA060596.1	EST_HUMAN	CM2-HT0177-041009-017-H12 HT0177 Homo sapiens cDNA
3087	15852	28404	2.7	1.0E-02	BE835558.1	EST_HUMAN	oc2208.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1350495 3'
3257	18019	28569	1.49	1.0E-02	BE988069.1	EST_HUMAN	RCO-FN0025-250500-021-002 FN0025 Homo sapiens cDNA
3861	18611	29250	0.78	1.0E-02	A1065086.1	EST_HUMAN	6018-00697R1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933889 3'
							HA02922 Human fetal liver cDNA library Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3676	16626	20264	0.7	1.0E-02	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21G102
4720	17438	30084	4.24	1.0E-02	6753521	NT	Mus musculus corticotropin releasing hormone receptor 2 (Chr2), mRNA
4703	17524	30146	5.16	1.0E-02	R06867.1	EST_HUMAN	Y654401.L1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:106633 5'
5331	18134	30793	0.72	1.0E-02	H22881.1	EST_HUMAN	y03611.L1 Soares ovary tumor NciH07 Homo sapiens cDNA clone IMAGE:236641 5'
5001	18456	31370	0.57	1.0E-02	AF306388.1	NT	Mus musculus transcription complex subunit NF-ATc4 (Nfatc4) gene, exons 1 and 2
8026	18805	31766	1.4	1.0E-02	AF257303.1	NT	Mus musculus synaptotagmin II (Sy2) gene, complete cds
8098	18896	31831	2.47	1.0E-02	AW577113.1	EST_HUMAN	MR4-BT03566-070100-201-001 BT03566 Homo sapiens cDNA
8098	18896	31832	2.47	1.0E-02	AW577113.1	EST_HUMAN	MR4-BT03566-070100-201-001 BT03566 Homo sapiens cDNA
9684	19531	32816	1.92	1.0E-02	Z26842.1	NT	Z.mays U3snRNA pseudogene
9293	21980	35133	4.19	1.0E-02	BF036331.1	EST_HUMAN	601456570F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863177 5'
9293	21980	35134	4.19	1.0E-02	BF036331.1	EST_HUMAN	601456570F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863177 5'
11220	23892		1.97	1.0E-02	AF167659.1	NT	Citridia fasciculata 27 kDa guide RNA-binding protein mRNA, complete cds; mitochondrial gene for mitochondrial product
11293	23925						1p55n07.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2112793 3' similar to gb:X15183_cds1
11340	24030	37334	1.46	1.0E-02	A1417981.1	EST_HUMAN	HEAT SHOCK PROTEIN HSP 90-ALPHA (HUMAN)/contains Alu repetitive element/contains element MER5 repetitive element;
12003	25410	37334	1.97	1.0E-02	AV760016.1	EST_HUMAN	AV760016 MDS Homo sapiens cDNA clone MDSBDG10 5'
12059	25189	30811	1.83	1.0E-02	Q62203	SWISSPROT	SPICEOSOME ASSOCIATED PROTEIN 02 (SAP 02) (SPlicing FACTOR 3A SUBUNIT 2) (SF3A06)
12075	25243	30811	3.78	1.0E-02	AW035521.1	EST_HUMAN	RC2-DT0007-120200-016-002 DT0007 Homo sapiens cDNA
12592	25398	30857	5.93	1.0E-02	S70330.1	NT	Homo sapiens renal dipeptidase (RDP) gene, complete cds
12803	25500	30857	3.74	1.0E-02	X02854.1	NT	H. sapiens gene for M691/CD83 antigen
873	13642	28312	1.84	1.0E-02	AB030887.1	NT	Homo sapiens WDR4 gene for WD repeat protein, complete cds
1241	13900		2.1	9.0E-03	A1796126.1	EST_HUMAN	WH4200.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2383433 3' similar to contains element MER22 MER22 repetitive element;
1463	14211	26896	2.07	9.0E-03	BE781889.1	EST_HUMAN	601470242F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873348 5'
2304	15115	27652	1.1	9.0E-03	AE001270.1	NT	Treponea pallidum section 86 of 87 of the complete genome
2403	15124	27661	2.48	9.0E-03	AL101599.2	NT	Arabidopsis Thaliana DNA chromosome 4, contig fragment No. 59
3656	16412	29060	0.92	9.0E-03	AF06934.1	NT	Mus musculus MHC class III protein RP1 (Rp1) mRNA, partial cds
4827	17655	30287	1.21	9.0E-03	J05184.1	NT	S. adlocutellus thermophilus gene, complete cds
4864	17689	30287	1.03	9.0E-03	BE047949.1	EST_HUMAN	t244e10.y1 NCL CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2281488 5'
4864	17689	30288	0.95	9.0E-03	T70044.1	EST_HUMAN	yc17508.st1 Stratiotes lung (8937210) Homo sapiens cDNA clone IMAGE:80819 3'
5720	18512		0.95	9.0E-03	I70044.1	EST_HUMAN	yc17508.st1 Stratiotes lung (8937210) Homo sapiens cDNA clone IMAGE:80819 3'
5720	18512		1.15	9.0E-03	A1806792.1	EST_HUMAN	W77904.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2281681 3'
6533	19299		4.88	9.0E-03	BE745968.1	EST_HUMAN	601573438F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834752 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7392	20043	33122	0.57	9.0E-03	A1242219.1	EST_HUMAN	GN7c12.11 Scn5a_NFL_I_GRC_S1 Homo sapiens cDNA clone IMAGE:185397.4 3'
7371	20051	33132	0.8	9.0E-03	8622570	NT	Homo sapiens hypothetical protein FLJ10660 (FLJ10660), mRNA
7774	20470		1.05	9.0E-03	AL036691.1	EST_HUMAN	DKFZp334L0412.71 432 (synonym: hsa3) Homo sapiens cDNA clone DKFZp334L0412.5'
8147	20841		0.85	9.0E-03	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-9, and partial cds, alternatively spliced
9745	22398	35601	0.47	9.0E-03	P26011	SWISSPROT	INTEGRIN BETA-7 PRECURSOR (INTEGRIN BETA-7) (M290 IEL ANTIGEN)
9762	22413	35620	1.44	9.0E-03	P26008	SWISSPROT	COLLAGEN ALPHA (IV) CHAIN PRECURSOR
10807	23387		2.07	9.0E-03	Y18000.1	NT	Homo sapiens NF2 gene
10936	23615	38686	1.57	9.0E-03	BE395380.1	EST_HUMAN	901310881F1 NH_MGC_44 Homo sapiens cDNA clone IMAGE:3632181.5'
11651	24248	37598	1.55	9.0E-03	L11144.1	NT	Homo sapiens progesterone (GAL1) gene, exons 1, 2, and 3
11651	24248	37598	1.55	9.0E-03	L11144.1	NT	Homo sapiens progesterone (GAL1) gene, exons 1, 2, and 3
12411	25411		2.37	9.0E-03	BE348385.1	EST_HUMAN	hw17b09.x1 NC1_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183161.3'
12703	24983		23.40	9.0E-03	BF351141.1	EST_HUMAN	PM1-HT0462-291299-001-409 HT0462 Homo sapiens cDNA
489	13274		4.08	8.0E-03	AA723007.1	EST_HUMAN	zh30c03.s1 Scn5a_phased_gland_N3HPG Homo sapiens cDNA clone IMAGE:413566.3' similar to contains Alu repetitive element
968	13734	26399	36.32	8.0E-03	AF106958.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
2154	14884	27617	2.2	8.0E-03	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2890	15726		0.53	8.0E-03	U47048.1	NT	Escherichia coli microcin 24 region, DNA binding protein (mdxA), immunity protein (mtf), microcin 24 (mtfS), and microcin transport protein (mtfA, mtfB) genes, complete cds
3353	16113	28769	1.08	8.0E-03	AJ131016.1	NT	Homo sapiens SCL gene locus
3665	18418	28058	1.21	8.0E-03	P32644	SWISSPROT	HYPOTHETICAL 127.0 KD PROTEIN IN RAD24-BMH1 INTERGENIC REGION
3666	18418	28059	1.21	8.0E-03	P32644	SWISSPROT	HYPOTHETICAL 127.0 KD PROTEIN IN RAD24-BMH1 INTERGENIC REGION
4350	17089	28721	4.88	8.0E-03	BF363327.1	EST_HUMAN	CM4-NN0119-300600-223-505 NN0119 Homo sapiens cDNA
5083	17802	30420	1.09	8.0E-03	AU140261.1	EST_HUMAN	AU140261 PLACE2 Homo sapiens cDNA clone PLACE20000223.6'
5436	18235	30949	2.82	8.0E-03	AF110620.1	NT	Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxidoreductase, NG28, KIFC1, Fas-binding protein, BING1, leucine, Rel/GS-like, KE2, BING4, beta 1,3-galactosyl transferase, and RPS18 genes, complete cds; Slc22a1 gene, partial>
6106	25085	31852	1.45	8.0E-03	AP000002.1	NT	Pyrococcus horikoshii OT3 genomic DNA, 287001-544000 nt, position (27)
6651	19413	32427	4.89	8.0E-03	P55577	SWISSPROT	PROBABLE PEPTIDASE YANA
5820	19481		0.95	8.0E-03	V01109.1	NT	Human BK virus (strain MM) genome. (Closely related to SV40.)
7107	19765	32860	1.79	8.0E-03	MT1767.1	NT	A. californica (marine gastropod mollusc) neuropeptide gene (bag cell), exon 1, 5' end
7442	20119		2.03	8.0E-03	AB038267.1	NT	Turkey truncatus mRNA for p40-phox, complete cds
8781	21473	34619	0.63	8.0E-03	P98160	SWISSPROT	BASAL MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR (HSPG) (PERLECAN) (PLC)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8908	21500	34646	3.29	8.0E-03	AY808602.1	EST_HUMAN	MR1-ST0111-111189-011-408 ST0111 Homo sapiens cDNA
8810	21508	34653	0.49	8.0E-03	AL139075.2	NT	Campylobacter jejuni NCTC11168 complete genome; segment 2/6
8878	21560	34713	0.58	8.0E-03	9788966	NT	Mus musculus fusion 2 (human) [Fus2], mRNA
8848	22498		4.63	8.0E-03	BE088608.1	EST_HUMAN	QV1-BT0677-040400-131-003 BT0677 Homo sapiens cDNA
10060	23357	36897	1.36	8.0E-03	BE788441.1	EST_HUMAN	601475619F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3878405 5'
10068	23586		3.58	8.0E-03	Z49652.1	NT	S.cerevisiae chromosome X, reading frame ORF YJR162W
11715	24309	37632	4.74	8.0E-03	AF004689.1	NT	Homo sapiens melanoma-associated antigen (MAGE-G1) gene, complete cds
11814	24402		22.71	8.0E-03	AA018180.1	EST_HUMAN	z332et11.1 Soares retina N2B4HR Homo sapiens cDNA clone IMAGE:360716 5'
11853	24437	37770	1.36	8.0E-03	BF342438.1	EST_HUMAN	602013041F1 NCJ_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4140418 5'
11833	24491		1.74	8.0E-03	MB9035.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
11980	24523		1.74	8.0E-03	AB038161.1	NT	Homo sapiens ABCG1 gene for ABC transporter (ATP-binding cassette, sub-family G (WHITE), member 1), complete cds
878	13483	26098	16.15	7.0E-03	AF097183.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
878	13483	26097	16.15	7.0E-03	AF097183.1	NT	Cryptosporidium parvum HC-10 gene, complete cds
956	13721	26387	3.57	7.0E-03	AF243376.1	NT	Glycine max glutathione S-transferase GST 21 mRNA, partial cds
1064	13852	26611	3.48	7.0E-03	AV731712.1	EST_HUMAN	AV731712 HTF Homo sapiens cDNA clone HTFAZF10 5'
1343	14091		2.67	7.0E-03	Q61090	SWISSPROT	FORHEAD BOX PROTEIN D3 (HNF3FH TRANSCRIPTION FACTOR GENESIS) (HEPATOCYTE
1374	14122	26797	6.71	7.0E-03	AA68296.1	EST_HUMAN	NUCLEAR FACTOR 3 FORKHEAD HOMOLOG 2 (HNF-2)
1491	14238	26924	3.37	7.0E-03	AY303599.1	EST_HUMAN	ab78408.s1 Strategene fetal retina 837202 Homo sapiens cDNA clone IMAGE:863145 3'
1735	14477	27178	1.24	7.0E-03	AW060566.1	EST_HUMAN	K21602.1 Soares_NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:2813739 3'
1735	14477	27178	1.24	7.0E-03	AW060566.1	EST_HUMAN	EST362626 MAGE resequences, MAGA Homo sapiens cDNA
2254	15599	27722	1.86	7.0E-03	P04629	SWISSPROT	EST362626 MAGE resequences, MAGA Homo sapiens cDNA
3548	16301	28951	0.71	7.0E-03	AI180273.1	EST_HUMAN	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
3749	16502	29137	0.8	7.0E-03	AW44463.1	EST_HUMAN	q34h02.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1751055 3'
3782	16544	29179	1.32	7.0E-03	AF198344.1	NT	UHL-B13-akb-c-10-0-JLat1 NCJ_CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733091 3'
4000	16502	29137	0.83	7.0E-03	AW44463.1	EST_HUMAN	Rattus norvegicus neuronal nicotinic acetylcholine receptor subunit (Alpha10) mRNA, complete cds
4560	17296		1.24	7.0E-03	AW630988.1	EST_HUMAN	UHL-B13-akb-c-10-0-JLat1 NCJ_CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733091 3'
4928	17657		2.17	7.0E-03	AL163278.2	NT	h88a05.y1 NCJ_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968638 5'
5729	18521		0.75	7.0E-03	H71106.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C078
6021	25083		4.9	7.0E-03	AW801059.1	EST_HUMAN	y82g01.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:211624 5' similar to gb-X14723 CLUSTERIN PRECURSOR (HUMAN);
6222	18696	31972	1.47	7.0E-03	W69251.1	EST_HUMAN	RC1-CT0286-080-000-018-c08 CT0286 Homo sapiens cDNA
							z333f10.1 Soares_fetal_NCHT NCJ_CGAP_fetal_NCHT Homo sapiens cDNA clone IMAGE:342476 5'

Page 171 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
6443	18211	32207	3.44	7.0E-03	AA327126.1	EST_HUMAN	EST330674 Colon I Homo sapiens cDNA 5' and
6470	19237	32237	0.75	7.0E-03	BE587385.1	EST_HUMAN	7454b10.x1 NCL CGAP Brn23 Homo sapiens cDNA clone IMAGE:3308347 3' similar to TR-Q13387
6970	19504	32529	1.67	7.0E-03	BE587385.1	EST_HUMAN	Q13387 HYPOTHETICAL PROTEIN 384D6 2, contains TAR112 TAR1 TAR1 repetitive element;
7420	20097	33184	5.48	7.0E-03	Z356833.1	NT	CM2-GT0478-230800-347-b11 GT0478 Homo sapiens cDNA
7420	20097	33185	5.48	7.0E-03	Z356833.1	NT	S. cerevisiae chromosome II reading frame ORF YBL077w
8010	20705	33633	2.47	7.0E-03	BE175987.1	EST_HUMAN	RC6-HT0582-160300-011-Q02 HT0582 Homo sapiens cDNA
8511	21203	34348	0.51	7.0E-03	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
9287	21964		0.75	7.0E-03	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
9495	22148	35330	0.72	7.0E-03	NE2378.1	EST_HUMAN	Y46010.a1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:246068 3' similar to contains
9620	22273	35480	2.57	7.0E-03	P46882	SWISSPROT	Alu repetitive element;
9620	22273	35481	2.57	7.0E-03	P46882	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
10204	22862		1.32	7.0E-03	AV687378.1	EST_HUMAN	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
10394	23030		0.77	7.0E-03	AT69734.1	EST_HUMAN	AV687379 GKO Homo sapiens cDNA clone GKAPC07 5'
10720	23417	36658	2.63	7.0E-03	AB009852.1	NT	W376709.x1 NCL CGAP P28 Homo sapiens cDNA clone IMAGE:2320840 3'
10818	23501	36738	1.71	7.0E-03	AJ004982.1	NT	Bos taurus mRNA for NDP62, complete cds
10818	23501	36740	1.71	7.0E-03	AJ004982.1	NT	Homo sapiens partial MUC5B gene, exon 1-29
10882	23657		1.29	7.0E-03	AJ242804.1	NT	Homo sapiens partial MUC5B gene, exon 1-29
12488	24833		1.79	7.0E-03	BE263253.1	EST_HUMAN	Sporobolus stipitatus mRNA for putative glycine and proline-rich protein
12553	24960		1.81	7.0E-03	Y17455.1	NT	6011451E4F2 NH1_MGC_19 Homo sapiens cDNA clone IMAGE:3180478 5'
12681	25400		1.72	7.0E-03	AL163300.2	NT	Homo sapiens [SFR2] gene, penultimate exon
							Homo sapiens chromosome 21 segment HS21C100
1218	13999	29937	12.34	6.0E-03	AW511148.1	EST_HUMAN	h22a05.x1 Scores NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:2910224 3' similar to
1218	13999	29938	12.34	6.0E-03	AW511148.1	EST_HUMAN	SW_PXR_HUMAN 075496 ORPHAN NUCLEAR RECEPTOR PXR;
2774	15479	28220	1.3	6.0E-03	AF112374.1	NT	SW_PXR_HUMAN 076469 ORPHAN NUCLEAR RECEPTOR PXR;
2893	15990	28305	3.38	6.0E-03	AA759135.1	EST_HUMAN	Danio rerio retinoid receptor gene cluster
2893	15990	28306	3.36	6.0E-03	AA759135.1	EST_HUMAN	ah78e11.a1 Scores beta1, NHT Homo sapiens cDNA clone 1321772 3'
2893	15990	28306	3.36	6.0E-03	AA759135.1	EST_HUMAN	ah78e11.a1 Scores beta1, NHT Homo sapiens cDNA clone 1321772 3'
3240	18002		2.22	6.0E-03	H75690.1	EST_HUMAN	y777004.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:211351 5'
3298	18090		1.31	6.0E-03	AF190336.1	NT	Notoncus sp. cytochrome c oxidase subunit II gene, partial cds; mitochondrial gene for mitochondrial product
3377	18136	28793	1.18	8.0E-03	U00880.1	NT	Fugu rubripes zfin finger protein, laochin, fatty acid binding protein, sepiapterin reductase and vesodoch

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3377	16136	28794	1.18	0.0E-03	U90880.1	NT	Fugu rubripes zinc finger protein, lodochin, fatty acid binding protein, sepiapherin reductase and vasodilator genes, complete cds
3634	16290		1.19	0.0E-03	W37885.1	EST_HUMAN	zic1/3a11.1/1 Soares, parathyroid, tumor, NBHPA Homo sapiens cDNA clone IMAGE:322172 5'
3632	16405	20044	3.88	0.0E-03	BF510493.1	EST_HUMAN	U1H-BL-ann-0-0-UJ 5' NCI_CGAP_Sus8 Homo sapiens cDNA clone IMAGE:3087764 3'
3682	16455	28078	1.08	0.0E-03	BE077350.1	EST_HUMAN	RC1-5T0606-200400-014-407 BT0606 Homo sapiens cDNA
3759	16511	29147	1.22	0.0E-03	6754028	NT	Mus musculus glucosaminyl-6-phosphatase desaminase (Gnp), mRNA
3902	16652	28284	0.76	0.0E-03	AW847284.1	EST_HUMAN	RCQ-CT0204-240999-021-1410 CT0204 Homo sapiens cDNA
3838	16658		1.28	0.0E-03	BE280108.1	EST_HUMAN	6008-0304F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2896513 5'
4331	17070		1.84	0.0E-03	A016833.1	EST_HUMAN	ov33c11.1/1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1635124 3'
4847	17381	30013	5.67	0.0E-03	AA324042.1	EST_HUMAN	EST27116 Caraballum II Homo sapiens cDNA 5' end similar to EST containing AU repeat
5073	17782	30407	2.58	0.0E-03	Q92209	SWISSPROT	SYNAPTONEMAL COMPLEX PROTEIN 1 (SCP-1 PROTEIN)
6061	20094	31902	0.67	0.0E-03	9827521	NT	Varicella virus, complete genome
6718	19633	32676	1.16	0.0E-03	O14994	SWISSPROT	SYNAPSIN III
6755	17924	30559	0.57	0.0E-03	BE233748.1	EST_HUMAN	601112353F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3363172 5'
7149	19836	32805	0.61	0.0E-03	AA298442.1	EST_HUMAN	EST11849 Uterus tumor 1 Homo sapiens cDNA 5' end
7149	19836	32806	0.61	0.0E-03	AA298442.1	EST_HUMAN	EST11849 Uterus tumor 1 Homo sapiens cDNA 5' end
7648	20216	33318	0.69	0.0E-03	AF128884.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 7-18 and complete cds
7702	20365	33479	0.62	0.0E-03	P17994	SWISSPROT	RAS-RELATED PROTEIN RAP-2B
7757	20453	33578	6.9	0.0E-03	A033980.1	EST_HUMAN	ov13404.1/1 Soares, parathyroid, tumor, NBHPA Homo sapiens cDNA clone IMAGE:1946670 3' similar to contains MER10.01 MER10 repetitive element;
7847	20509	33685	2.17	0.0E-03	AW798337.1	EST_HUMAN	RCQ-UM0051-210800-032-g02 UM0051 Homo sapiens cDNA
7845	20640		1.58	0.0E-03	BF038108.1	EST_HUMAN	601454915F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3858626 5'
8454	22004	35176	7.28	0.0E-03	D10548.1	NT	Subacute sclerosing panencephalitis (SSPE) virus mRNA for fusion protein
9943	22591		2.13	0.0E-03	A432681.1	EST_HUMAN	122502.1/1 NCI_CGAP_J0011 Homo sapiens cDNA clone IMAGE:2131202 3' similar to SW-R13A_HUMAN
10082	22710	35628	0.88	0.0E-03	AJ011849.1	NT	P40429 60S RIBOSOMAL PROTEIN L13A;
10184	22842		1.14	0.0E-03	AF084553.1	NT	Bacillus subtilis fnd gene
10304	22951	36186	0.69	0.0E-03	X68396.1	NT	Homo sapiens oxidic acid-inducible and cAMP-regulated phosphoprotein 19 (ARPP-19) mRNA, complete cds
10845	23336	36575	1.75	0.0E-03	AW902164.1	EST_HUMAN	EST374237 IMAGE resequencing, MAGG Homo sapiens cDNA
10773	23402		2.64	0.0E-03	11546814	NT	Homo sapiens hypothetical zinc finger protein FLJ14011 (FLJ14011), mRNA
10750	23435	36680	1.28	0.0E-03	AA207066.1	EST_HUMAN	1691612/1 NCI_CGAP_P228 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TRC000519 O00519 FATTY ACID AMIDE HYDROLASE.

Page 173 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10750	23435	30691	1.26	6.0E-03	A1420786.1	EST_HUMAN	1691c12x1 NC1 CGAP_P128 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR-O00519 O00519
10903	23583		4.6	6.0E-03	U14569.1	NT	FATTY ACID AMIDE HYDROLASE
10904	23584	30833	2.81	6.0E-03	BE737896.1	EST_HUMAN	Mus musculus zinc-finger protein mRNA, complete cds
12042	24563		3.26	6.0E-03	AF010496.1	NT	00157277406F1 NIH_MGC 57 Homo sapiens cDNA clone IMAGE:3839747 5'
12160	25174		6.68	6.0E-03	AE000833.1	NT	Rhodobacter capsulatus strain SB1003, partial genome
12239	25235		3.17	6.0E-03	U30790.1	NT	Methanobacterium thermoautotrophicum from bases 429182 to 460280 (section 39 of 148) of the complete genome
12566	24598		1.64	6.0E-03	BE788019.1	EST_HUMAN	Pneumocystis carinii f. sp. reiji guanine nucleotide binding protein alpha subunit (pog1) gene, complete cds
12588	24910		1.96	6.0E-03	AJ245490.1	NT	601482032F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:3889388 5'
654	13432	26072	2.7	5.0E-03	L25105.1	NT	Brassica napus alg gene for S-tocotriene synthase, cultivar T2
654	13432	26073	2.7	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminocycl-IRNA synthase, complete cds; complete ORF8, and grpE-like protein, complete cds
655	13432	26072	3.73	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminocycl-IRNA synthase, complete cds; complete ORF8, and grpE-like protein, complete cds
655	13432	26073	3.73	5.0E-03	L25105.1	NT	Chlamydia trachomatis partial ORF8; aminocycl-IRNA synthase, complete cds; complete ORF8, and grpE-like protein, complete cds
1090	13348	28507	1.15	5.0E-03	AJ010457.1	NT	Chlamydia trachomatis partial ORF8; aminocycl-IRNA synthase, complete cds; complete ORF8, and grpE-like protein, complete cds
2036	15397	28136	2.5	5.0E-03	AB033006.1	EST_HUMAN	Arabisopsis thaliana mRNA for DEAD box RNA helicase, RH3
3133	15898	28543	3.82	5.0E-03	BE260057.1	EST_HUMAN	Homo sapiens mRNA for KIAA1180 protein, partial cds
3152	15915		2.83	5.0E-03	U77623.1	EST_HUMAN	001104706F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3538709 5'
3164	15927	28575	1.3	5.0E-03	RJ1794.1	NT	yc8109.s1 Soares Infant brain INIB Homo sapiens cDNA clone IMAGE:22395 3'
3272	16033		1.12	5.0E-03	AJ297357.1	NT	Arabisopsis thaliana DNA chromosome 4, contig fragment No. 3
3687	16440	29082	4.03	5.0E-03	AF147449.2	NT	X89502.s1 Soares breast 2NIBB84 Homo sapiens cDNA clone IMAGE:155696 3'
3741	16494	29129	0.85	5.0E-03	U38914.1	NT	Homo sapiens partial LMD1 gene for LIM domains containing protein 1 and KIAA0861 gene
3954	16704		1.17	5.0E-03	AJ298975.1	EST_HUMAN	Pseudomonas aeruginosa strain PAO1 penicillin-binding protein 1B (penB) gene, complete cds
4272	16494	29129	0.82	5.0E-03	U38914.1	NT	Citrus sinensis seed storage protein citrin mRNA, complete cds
4586	17304	28831	0.73	5.0E-03	AJ131016.1	NT	EST12218 Utricularia tumor 1 Homo sapiens cDNA 5' and
4670	17404	30039	1.17	5.0E-03	AJ762387.1	EST_HUMAN	Citrus sinensis seed storage protein citrin mRNA, complete cds
5707	18501	31422	5.5	5.0E-03	P35500	SWISSPROT	Homo sapiens SCL gene locus
							en15002x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_en15002 random
							SODIUM CHANNEL PROTEIN PARA (PARALYTIC PROTEIN)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5963	18735	31894	2.97	5.0E-03	000507	SWISSPROT	PROBABLE UBIQUITIN CARBOXYL-TERMINAL HYDROLASE FAF-Y (UBIQUITIN THIOLESTERASE FAF-Y) (UBIQUITIN-SPECIFIC PROCESSING PROTEASE FAF-Y) (DEUBIQUITINATING ENZYME FAF-Y) (FAT FACETS PROTEIN RELATED, Y-LINKED) (UBIQUITIN-SPECIFIC PROTEASE 9, Y CHROMOSOME)
5968	18799		0.91	5.0E-03	AE002234.2	NT	Chlamydia pneumoniae AF39, section 92 of 94 of the complete genome
6499	19284		7.59	5.0E-03	BE300091.1	EST_HUMAN	800844564T11 NH_MGC_17 Homo sapiens cDNA clone IMAGE:2680871 3'
6748	17816	30578	7.45	5.0E-03	AB025024.1	NT	Mus musculus AMD1 gene for S-adenosylmethionine decarboxylase, complete cds
6940	19422		0.64	5.0E-03	AB038267.1	NT	Turrops truncatus mRNA for P40-phox, complete cds
7385	20085	33143	0.73	5.0E-03	T05124.1	EST_HUMAN	EST030112 Fetal brain, Strategene (cat#036206) Homo sapiens cDNA clone HFBOR93 similar to EST containing Alu repeat
7498	20170		1.21	5.0E-03	AW854327.1	EST_HUMAN	RC3-CT0255-031099-011-07 CT0255 Homo sapiens cDNA
7687	20331	33442	7.6	5.0E-03	AB010816.1	NT	Homo sapiens MASL1 mRNA, complete cds
8119	20813	33948	0.48	5.0E-03	AW856007.1	EST_HUMAN	RC8-CT0281-081108-011-A05 CT0281 Homo sapiens cDNA
8119	20813	33949	0.48	5.0E-03	AW856007.1	EST_HUMAN	RC8-CT0281-081108-011-A05 CT0281 Homo sapiens cDNA
8137	20831	33965	3.29	5.0E-03	P48962	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
8509	21201		5.83	5.0E-03	M61132.1	NT	Mouse complement receptor (CR2) mRNA, 3' end
8706	21398	34645	1.04	5.0E-03	D90723.1	NT	Escherichia coli genomic DNA, (19.1 - 19.4 min)
8838	21530	34670	0.71	5.0E-03	M25060.1	NT	Rabbit uteroglobin (UGL) gene, exon 1
9482	22135	35316	0.45	5.0E-03	P33750	SWISSPROT	SOF1 PROTEIN
9739	22390	35595	0.89	5.0E-03	L21710.1	NT	Plasmodium berghei 58 kDa phosphoprotein mRNA, partial cds
9871	22821	35716	0.7	5.0E-03	AW821888.1	EST_HUMAN	RC0-ST0379-210100-032-c02 ST0379 Homo sapiens cDNA
10057	22705	35923	0.45	5.0E-03	AA633143.1	EST_HUMAN	H46h10 a1 NCJ_CQAP_P16 Homo sapiens cDNA clone IMAGE:595587
10231	22879	36091	0.51	5.0E-03	7682557	NT	Homo sapiens PRO0471 protein (PRO0471), mRNA
10377	23023		0.45	5.0E-03	AA633281.1	EST_HUMAN	ag49c10.a1 Giesler Wilms tumor Homo sapiens cDNA clone IMAGE:1126290 3'
10621	23514		4.99	5.0E-03	T16588.1	EST_HUMAN	604f Homo sapiens cDNA clone 604
10859	23539	36785	3.42	5.0E-03	AW170334.1	EST_HUMAN	h56g05.x1 Soares_NHCC cervical tumor Homo sapiens cDNA clone IMAGE:2688040 3' similar to contains L1.12 L1 repetitive element
10859	23539	36786	3.42	5.0E-03	AW170334.1	EST_HUMAN	h56g05.x1 Soares_NHCC cervical tumor Homo sapiens cDNA clone IMAGE:2688040 3' similar to contains L1.12 L1 repetitive element
10971	23647	36900	1.89	5.0E-03	746153.1	EST_HUMAN	h00804.1 Strategene placenta (h037225) Homo sapiens cDNA clone IMAGE:70686 5'
11021	23683	36956	1.47	5.0E-03	10946753	NT	Mus musculus hypodermal protein, MNCS-4780 (LOC58212), mRNA
11303	23882		3.54	5.0E-03	BE048055.1	EST_HUMAN	h26c04.y1 NCJ_CQAP_Bm62 Homo sapiens cDNA clone IMAGE:2291822 5'
11774	24366	37607	1.83	5.0E-03	AJ276505.1	NT	Mus musculus genomic fragment, 279 Kb, chromosome 7
11774	24366	37688	1.83	5.0E-03	AJ276505.1	NT	Mus musculus genomic fragment, 279 Kb, chromosome 7

Page 175 of 536
Table 4

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
12176	26387		9.28	5.0E-03 AF047874.1	NT		Gallus gallus glyceraldehyde-3-phosphate dehydrogenase mRNA, complete cds
12307	24731		4.11	5.0E-03 AF067253.1	NT		Bugtia malyi Y chromosome marker
12409	24792		2.62	5.0E-03 L10347.1	NT		Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
12441	24811		1.67	5.0E-03 AA468997.1	EST_HUMAN		XZ75403.s1 Soares ovary tumor NkH0T Homo sapiens cDNA clone IMAGE:809548 3' similar to SW-DXA2_MOUSE P14886 PROBABLE DIPHENOL OXIDASE A2 COMPONENT ;
12467	25183		2.78	5.0E-03 BF572332.1	EST_HUMAN		602077774T NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4252002 5'
12843	24940	30980	4.2	5.0E-03 AW449108.1	EST_HUMAN		U0174B3-akf4-08-Q-J1.s1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2734216 3'
12862	26263		1.78	5.0E-03 QD2988	SWISSPROT		COLLAGEN ALPHA 1(VI) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN)(LC COLLAGEN)
226	13036	25072	2.98	4.0E-03 AW60196.1	EST_HUMAN		UIHF-BND-alc-H04-Q-UJ.s1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078831 5'
313	13117	25755	2.20	4.0E-03 RA0482.1	EST_HUMAN		Y051604.s1 Soares infant brain NIH_Homo sapiens cDNA clone IMAGE:35968 3'
589	13368	26897	2.89	4.0E-03 AJ063630.1	EST_HUMAN		cn75g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1662668 3'
857	13626	26286	2.03	4.0E-03 RA0482.1	EST_HUMAN		Y051604.s1 Soares infant brain NIH_Homo sapiens cDNA clone IMAGE:35968 3'
891	13690		4.64	4.0E-03 AW749101.1	EST_HUMAN		RC3-BT03333-110100-012-01 BT0333 Homo sapiens cDNA
1128	13884	26544	29.46	4.0E-03 AJ069777.1	EST_HUMAN		Z81a08.r1 Stratigene cdon (8637204) Homo sapiens cDNA clone IMAGE:516968 5'
1146	13901	26563	2.67	4.0E-03 AW794740.1	EST_HUMAN		RC9-UM00114-170400-023-G01 UM00114 Homo sapiens cDNA
1280	14030	26969	1.4	4.0E-03 AL284374.1	EST_HUMAN		ca55a01.r1 NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:701738 5'
1581	14327		1.52	4.0E-03 AV708305.1	EST_HUMAN		AV708305 ADC Homo sapiens cDNA clone ADCAKB06 5'
1737	14479	27178	2.23	4.0E-03 U33472.1	NT		Rattus norvegicus type 1 astrocyte and oligodendrocyte associated protein AT-148 mRNA, complete cds
2011	14746	27474	10.58	4.0E-03 AJ069777.1	EST_HUMAN		Z81a08.r1 Stratigene cdon (8637204) Homo sapiens cDNA clone IMAGE:516968 5'
2244	14972		2.49	4.0E-03 BE410586.1	EST_HUMAN		601307418T1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638510 5'
2276	15002	27742	1.64	4.0E-03 AW794740.1	EST_HUMAN		RC9-UM00114-170400-023-G01 UM00114 Homo sapiens cDNA
2578	15293	28030	1.97	4.0E-03 U62111.2	NT		Homo sapiens X28 region near ALD locus containing dual specificity phosphatases 9 (DUSP9), ribosomal protein L18e (RPL18e), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTTR), CDM protein (CDM), adrenoleukodystrophy protein >
2578	15293						Homo sapiens X28 region near ALD locus containing dual specificity phosphatases 9 (DUSP9), ribosomal protein L18e (RPL18e), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTTR), CDM protein (CDM), adrenoleukodystrophy protein >
2578	15293	28031	1.97	4.0E-03 U62111.2	NT		Homo sapiens X28 region near ALD locus containing dual specificity phosphatases 9 (DUSP9), ribosomal protein L18e (RPL18e), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTTR), CDM protein (CDM), adrenoleukodystrophy protein >
2698	15405	28140	3	4.0E-03 AJ277395.1	NT		Homo sapiens polyubiquitin-containing C14orf4 gene
2698	15405	28147	3	4.0E-03 AJ277395.1	NT		Homo sapiens polyubiquitin-containing C14orf4 gene
2701	15409	28144	1.41	4.0E-03 AL163284.2	NT		Homo sapiens polyubiquitin-containing H2S1C094 gene
3219	15982	28634	1.16	4.0E-03 BE154134.1	EST_HUMAN		PMT-HT0340-151289-003-n08 HT0340 Homo sapiens cDNA
3219	15982	28635	1.16	4.0E-03 BE154134.1	EST_HUMAN		PMT-HT0340-151289-003-n08 HT0340 Homo sapiens cDNA
3521	16277	28931	0.67	4.0E-03 AW188428.1	EST_HUMAN		cg8904.x1 NCI CGAP Cr18 Homo sapiens cDNA clone IMAGE:2855278 3'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3521	18271	28632	0.97	4.0E-03	AW188428.1	EST_HUMAN	x89804.x1 NCL CGAP_C018 Homo sapiens cDNA clone IMAGE:2865279 3'
3512	18365	28008	0.73	4.0E-03	Q13006	SWISSPROT	OLFATORY RECEPTOR 611 (OLFATORY RECEPTOR-LIKE PROTEIN OLF1)
3908	18656	28300	0.73	4.0E-03	AF080888.1	NT	Mus musculus tumor susceptibility protein 101 (tsp101) gene, complete cds
3977	18726		1.95	4.0E-03	AJ011712.1	NT	Homo sapiens TNNT1 gene, exon 1-11 (and joined CDS)
5057	17776	30393	0.93	4.0E-03	AW103719.1	EST_HUMAN	x85303.x1 NCL CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2814460 3' similar to contains L1, L1 L1
5114	17832		0.97	4.0E-03	AA772888.1	EST_HUMAN	ser73a05.s1 Stridogene echin brain S11 Homo sapiens cDNA clone IMAGE:968776 3'
5194	18002	30825	1.8	4.0E-03	AF008898.1	NT	Drosophila melanogaster armo207 (arom207) mRNA, complete cds
5314	18118	30774	23.91	4.0E-03	AF169825.1	NT	Rattus norvegicus beta-calactin binding protein mRNA, complete cds
5705	18480	31421	2.48	4.0E-03	P04106	SWISSPROT	(HPRG)
5708	18502	31423	1.74	4.0E-03	P21849	SWISSPROT	MAJOR SURFACE-LABELLED TROPHOZOITE ANTIGEN PRECURSOR
5782	18583	31510	0.86	4.0E-03	AL133871.1	EST_HUMAN	DKFZp7811014.1 r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp7811014.5
5993	18774		4.11	4.0E-03	U22180.1	NT	Rattus norvegicus coxiii gene, complete cds
6140	18918	31888	0.85	4.0E-03	AW30872.1	EST_HUMAN	hy46c07.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2848652 3'
6217	18991	31887	1.5	4.0E-03	BE548453.1	EST_HUMAN	601078075F1 NH1_MGC_12 Homo sapiens cDNA clone IMAGE:3481964 5'
6572	19338	32347	1.28	4.0E-03	AA813222.1	EST_HUMAN	h32f11.s1 Scavie, lewis, NHT Homo sapiens cDNA clone 1382045 3'
6677	19594	32632	1.81	4.0E-03	U76408.1	NT	Lycopodium obscurum knotted 3 protein (TKin3) mRNA, complete cds
6870	19452	32470	0.99	4.0E-03	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
6870	19452	32471	0.99	4.0E-03	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
7098	19787	32851	3.5	4.0E-03	Q02817	SWISSPROT	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2)
7331	20013	33091	1.23	4.0E-03	AB81483.1	EST_HUMAN	b67g12.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2271814 3'
7333	20015	33093	0.78	4.0E-03	BE870170.1	EST_HUMAN	763102.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284043 3'
7424	20101		0.74	4.0E-03	X82108.1	NT	H. sapiens lncX gene
7843	20538	33966	0.7	4.0E-03	Q91792	SWISSPROT	ADAM-TS 5 (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 5)
7847	20842	33787	5.45	4.0E-03	AF111944.1	NT	(ADAMP-2) (ADAMP-TS 11)
8103	20797	33928	2.06	4.0E-03	7882087	NT	Drosophila discalium AX4 development protein DGT122 (DGT122) gene, partial cds
8614	21306	34448	6.98	4.0E-03	AJ553983.1	EST_HUMAN	h46b11.x1 Scavie, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2080013 3' similar to contains Alu repetitive element
8787	21479		4.25	4.0E-03	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C008
8797	21489	34535	2.97	4.0E-03	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
9827	22478	35570	0.87	4.0E-03	H340994.1	EST_HUMAN	h42g12.r1 Scavie, retina N265-IR Homo sapiens cDNA clone IMAGE:190180 5'
10275	22923	36135	1.3	4.0E-03	AL161555.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 55
10486	23112		0.45	4.0E-03	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Describer
11074	23744	37017	4.09	4.0E-03	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
11777	24388	37700	1.82	4.0E-03	AEO02102.1	NT	Ureaplasma urealyticum section 3 of 90 of the complete genome
12147	25395		1.78	4.0E-03	BE316173.1	EST_HUMAN	PM4-BN0138-180500-002-b08 BN0138 Homo sapiens cDNA
12187	24649		2.38	4.0E-03	BE298290.1	EST_HUMAN	601118164F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028095 5'
12246	24694		2.27	4.0E-03	AW904273.1	EST_HUMAN	UH-FH-BND-449-04-04-UL1 NIH_MGC_90 Homo sapiens cDNA clone IMAGE:3080622 5'
12480	24841		3.41	4.0E-03	BF224125.1	EST_HUMAN	7q74c08.x1 NCI CGAP_L224 Homo sapiens cDNA clone IMAGE:31165589 5'
12521	25293		2.08	4.0E-03	AW014596.1	EST_HUMAN	element; contains element ME331 repetitive element;
12801	25048	30969	2.17	4.0E-03	11439955	NT	hm02007.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2863932 3' similar to contains element LTR5 repetitive element;
382	13160	25803	2.38	3.0E-03	AF011920.1	NT	Homo sapiens GRI2-associated binder 2 (KIAA0571), mRNA
859	13628	26269	5.37	3.0E-03	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
1657	14403	27091	3.35	3.0E-03	A4488110.1	EST_HUMAN	hm73405.a1 NCI CGAP_P22 Homo sapiens cDNA clone IMAGE:7823984 similar to contains Alu repetitive element;
2255	14962		1.38	3.0E-03	AF050069.1	NT	Homo sapiens MHC class 1 region
2292	15017		6.44	3.0E-03	Z32821.1	NT	S.cereale (cv. Hialo) mRNA for triosephosphate isomerase
2293	15018	27753	1.09	3.0E-03	U46958.1	NT	Mus musculus histone H1a1 factor gene, partial cds
2293	15018	27754	1.09	3.0E-03	U46958.1	NT	Mus musculus histone H1a1 factor gene, partial cds
3081	15948	28488	3.31	3.0E-03	BE376296.1	EST_HUMAN	601237962F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:36009633 5'
3149	15912	28557	2.52	3.0E-03	AW802887.1	EST_HUMAN	IL2-JM0076-2-0300-056-D03 UM0076 Homo sapiens cDNA
3412	16170	28619	1.72	3.0E-03	U34906.1	NT	Mus musculus alpha-1(XVIII) collagen (COL18A1) gene, exon 1 and 2
3420	16177		5.97	3.0E-03	Y12500.1	NT	C. elegans samc-1 gene
3959	16708	29348	6.97	3.0E-03	AV762362.1	EST_HUMAN	AV762362 MDS Homo sapiens cDNA clone MDSBS001 5'
3959	16708	29349	6.97	3.0E-03	AV762362.1	EST_HUMAN	AV762362 MDS Homo sapiens cDNA clone MDSBS001 5'
4016	16782	29390	1.35	3.0E-03	AF762278.1	EST_HUMAN	af04019a5 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1165589 5'
4130	16872		1	3.0E-03	Z32521.1	NT	S.cereale (cv. Hialo) mRNA for triosephosphate isomerase
4384	17102	29737	5.83	3.0E-03	AJ011432.1	NT	Rattus norvegicus gdr1 gene
4428	17164		0.73	3.0E-03	BE348739.1	EST_HUMAN	hm9908.x1 NCI CGAP_L224 Homo sapiens cDNA clone IMAGE:3161934 3'
4482	17217	29844	4.97	3.0E-03	AF36141.1	EST_HUMAN	xa8.P10.H3 concn Homo sapiens cDNA 3'
4782	17514	30136	2.38	3.0E-03	AJ732764.1	EST_HUMAN	ab11608.05 Stragelung lung (8637210) Homo sapiens cDNA clone IMAGE:841142 3' similar to contains Alu repetitive element;
4802	17533	30165	7.94	3.0E-03	BE787045.1	EST_HUMAN	601482715F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3885483 5'
5184	17892	30508	3.98	3.0E-03	8922499	NT	Homo sapiens hypothetical protein FLJ10539 (FLJ10539), mRNA
5498	18287	31159	1.98	3.0E-03	AJ246981.1	NT	Mus musculus protein for hypothetical protein (ORF2 ortholog)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5539	18337	31244	0.89	3.0E-03	U55323.1	NT	Mus musculus H2-M alpha chain (H2-Ma) gene, H2-M beta 2 chain (H2-Mb2) gene, H2-M beta 1 chain (H2-Mb1) gene, low molecular weight protein 2 (Lmp2) gene, complete cds
6458	19225	32225	11.75	3.0E-03	AA456701.1	EST_HUMAN	sa13170.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:613163 5'
7104	19792	32857	1.38	3.0E-03	AJ011419.1	NT	Kluyveromyces maritimus pep3 gene for putative cytosolic peroxidase
7422	20099	33187	3.64	3.0E-03	AB021738.1	NT	Oryza sativa gene for bZIP protein, complete cds
7839	20634	33661	0.82	3.0E-03	BF333058.1	EST_HUMAN	RC9-BT0812-250900-032-e07 BT0812 Homo sapiens cDNA
7839	20534	33662	0.82	3.0E-03	BF333058.1	EST_HUMAN	RC9-BT0812-250900-032-e07 BT0812 Homo sapiens cDNA
8056	20750	33881	1.54	3.0E-03	N92560.1	EST_HUMAN	Z627004.1 Soares_papillary_tumor_NBHPA Homo sapiens cDNA clone IMAGE:304783 3'
8214	20908		0.51	3.0E-03	IR63498.1	NT	S.cerevisiae UGA35 gene, complete cds
8380	21063	34194	1.32	3.0E-03	P51989	SWISSPROT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A2 HOMOLOG 1 (HNRNP A2(A))
8381	21074	34213	1.47	3.0E-03	AL103288.2	NT	NONSTRUCTURAL PROTEIN V
8485	21177		1.29	3.0E-03	Q90M81	SWISSPROT	Homo sapiens chromosome 21 segment HS21C068
8890	21581		11.08	3.0E-03	AW613774.1	EST_HUMAN	HN0010.x1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2889131 3' similar to contains L1.t.L1 repetitive element::
8943	21634	34778	4.01	3.0E-03	AL161589.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 85
8967	21657	34808	0.44	3.0E-03	A016731.1	EST_HUMAN	ov03412.x1 NCL_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1036247 3' similar to gbX57138_ma1
8977	21667	34817	0.73	3.0E-03	BF336078.1	EST_HUMAN	HISTONE H2B.2 (HUMAN);
9309	21976		0.83	3.0E-03	D00001.1	NT	602035690.F1 NCL_CGAP_Bmd4 Homo sapiens cDNA clone IMAGE:4183938 5'
9347	20418	33538	0.83	3.0E-03	BE154670.1	EST_HUMAN	Synedochyella sp. PCC28903 complete genome, 3/27, 271900-402289
9536	22189		0.54	3.0E-03	P03365	SWISSPROT	PM3-HT0344-071299-003-007 HT0344 Homo sapiens cDNA
9606	22259		3.88	3.0E-03	P08672	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; RIBONUCLEASE H]
							CIRCUMSPORZOITE PROTEIN PRECURSOR (GS)
							RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
9795	22446	35951	1.3	3.0E-03	P11389	SWISSPROT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A2 HOMOLOG 1 (HNRNP A2(A))
9880	22546	35740	1.29	3.0E-03	P51989	SWISSPROT	Homo sapiens chromosome 21 segment HS21C103
10040	22688	35806	3.97	3.0E-03	AL163303.2	NT	Homo sapiens ATPGTP-binding protein (HEAB), mRNA
10762	23437		1.9	3.0E-03	5803028	NT	Oryza sativa gene for bZIP protein, complete cds
11137	20069	33187	2.65	3.0E-03	AB021738.1	NT	Pneumocystis carinii leish-like serine endoprotease mRNA, partial cds
11363	24043	37346	1.69	3.0E-03	AF006222.1	NT	Homo sapiens golin-like protein (GLP) gene, complete cds
11424	23191	39422	2.52	3.0E-03	AF268285.1	NT	Homo sapiens trinucleotide repeat DNA binding protein p23-CGGBP (CGGBP) gene, complete cds
11462	24065	37372	2.72	3.0E-03	AF064481.1	NT	Homo sapiens trinucleotide repeat DNA binding protein p20-CGGBP (CGGBP) gene, complete cds
11462	24065	37373	2.72	3.0E-03	AF064481.1	NT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
11543	24143	37462	1.58	3.0E-03	P11389	SWISSPROT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11784	24374		1.48	3.0E-03	AW264612.1	EST_HUMAN	U1H-B12-4H-4-06-Q-U1.1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2726842 3'
11927	25196		2.86	3.0E-03	AB230066.1	EST_HUMAN	promoter-5.5B7.7 bVtumor Homo sapiens cDNA 5'
11962	24510	37256	1.88	3.0E-03	AA065154.1	EST_HUMAN	cd7010.11 Scores: total_fetus_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1622779 3' similar to contains 1.13 MER28 repetitive element;
12016	25321		2.26	3.0E-03	AB008686.1	NT	Homo sapiens gene for GMP-N-acetylneuraminic acid hydroxylase, partial cds
12190	24061	31088	2.71	3.0E-03	AB026282.1	NT	Radius norvegicus mRNA for connexin36 (cx36 gene)
502	13286	25910	1.83	2.0E-03	Q04682	SWISSPROT	RING CANAL PROTEIN (KELCH PROTEIN)
502	13286	26920	1.83	2.0E-03	Q04682	SWISSPROT	RING CANAL PROTEIN (KELCH PROTEIN)
768	15932		12.31	2.0E-03	T70874.1	EST_HUMAN	y415h03.11 Scores: fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:108341 5'
1342	14090	26798	2.07	2.0E-03	M20783.1	NT	Human alpha-2-plasmin inhibitor gene, exons 6 and 7
1345	14093	26798	1.4	2.0E-03	AA061605.1	EST_HUMAN	nu6801.11 NCI CGAP_AVT Homo sapiens cDNA clone IMAGE:1217693
1354	14102	26777	18.16	2.0E-03	AF284446.1	NT	Homo sapiens tumor-related protein DRG2 (DRG2) gene, complete cds
1473	14220	26906	1.73	2.0E-03	P48509	SWISSPROT	PLATELET-ENDOTHELIAL TETRASPAN ANTIGEN 3 (PETA-3) (GP27) (MEMBRANE GLYCOPROTEIN SFA-1) (CD151 ANTIGEN)
1506	14252	26938	1.84	2.0E-03	4557836	NT	Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI) (PLOC) mRNA
1506	14252	26939	1.84	2.0E-03	4557836	NT	Homo sapiens procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI) (PLOC) mRNA
1586	14332		8.31	2.0E-03	P26400	SWISSPROT	COLLAGEN ALPHA 2(V) CHAIN PRECURSOR
1764	14506	27207	1.13	2.0E-03	AA460138.1	EST_HUMAN	2x24210.11 Scores: total_fetus_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:789114 5'
1872	14610		1.01	2.0E-03	BE144608.1	EST_HUMAN	CM2-HT07183-06T099-076-003 HT07183 Homo sapiens cDNA
1986	14724	27445	1.57	2.0E-03	AF302691.1	NT	Mus musculus myelin expression factor-3-like protein gene, partial cds
2247	14975	27713	1.16	2.0E-03	AL183302.2	NT	Homo sapiens chromosome 21 segment HS21C102
2658	15272	28007	4.01	2.0E-03	AF187974.1	NT	8 Homo sapiens concentrative nucleoside transporter (CNT1) gene, exon 12
2658	15272	28008	4.01	2.0E-03	AF187974.1	NT	8 Homo sapiens concentrative nucleoside transporter (CNT1) gene, exon 12
2984	15298		4.57	2.0E-03	AA137782.1	EST_HUMAN	U1H-B11-4H-4-10-Q-U1.1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717010 3'
3411	16166	28818	4.3	2.0E-03	AA460138.1	EST_HUMAN	2x24210.11 Scores: total_fetus_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:789114 5'
3417	18174	28823	1.13	2.0E-03	BF66665.1	EST_HUMAN	602183960T1 NIH MGC_42 Homo sapiens cDNA clone IMAGE:430070 3'
3657	16410	29048	6.82	2.0E-03	X87344.1	NT	H. sapiens DMA, DMB, HLA-A2, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING8, 9, 13 and 14 genes
4093	18835	29461	1.98	2.0E-03	P03374	SWISSPROT	ENV POLYPROTEIN [CONTAINS: COAT PROTEIN GP52; COAT PROTEIN GP38]
4196	18936		11.03	2.0E-03	U68491.1	NT	Radius norvegicus 5-hydroxytryptamine/ receptor gene, partial cds
4393	17130		1.12	2.0E-03	AW297380.1	EST_HUMAN	U1H-B10-4H-4-03-Q-U1.1 NCI CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2730413 3'
4397	17134	28765	0.87	2.0E-03	AD664746.1	EST_HUMAN	HA0507 Human fetal liver cDNA library Homo sapiens cDNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4509	17244	29877	2.2	2.0E-03	L25121	NT	Drosophila melanogaster shorttailed class 2 (sls) mRNA, complete cds
4509	17244	29878	2.2	2.0E-03	L25121	NT	Drosophila melanogaster shorttailed class 2 (sls) mRNA, complete cds
4683	17397		1.84	2.0E-03	R87773.1	EST_HUMAN	yo45602.x1 Scores adult brain N2644-B55Y Homo sapiens cDNA clone IMAGE:180360 3'
4956	17682	30280				NT	Homo sapiens X-linked enhidridio ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5092	17811	30427	2.57	2.0E-03	AF003528.1	EST_HUMAN	601583004F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3937600 5'
5399	18169	30893	1.38	2.0E-03	BF241410.1	EST_HUMAN	601876385F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4104602 5'
5540	25070	31245	2.08	2.0E-03	AB014593.1	NT	Homo sapiens mRNA for KIAA0683 protein, partial cds
5623	18420	31333	1.86	2.0E-03	U63711.1	NT	Xenopus laevis xefitin mRNA, complete cds
6019	18300	31760	3.68	2.0E-03	P23477	SWISSPROT	ATP-DEPENDENT NUCLEASE SUBUNIT B
6019	18800	31761	3.58	2.0E-03	P23477	SWISSPROT	ATP-DEPENDENT NUCLEASE SUBUNIT B
6283	19027	32001	2.17	2.0E-03	Q96203	SWISSPROT	CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA-RP II) (CA-XI)
6283	19027	32002	2.17	2.0E-03	Q96203	SWISSPROT	CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA-RP II) (CA-XI)
6255	19029	32004	7.5	2.0E-03	BF308187.1	EST_HUMAN	601687434F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4121408 6'
6291	19064	32046	2.44	2.0E-03	Q9UKP4	SWISSPROT	ADAM-TS 7 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 7) (ADAMTS-7) (ADAM-TS7)
6292	19065	32047	0.88	2.0E-03	AV709075.1	EST_HUMAN	AV709075 ADC Homo sapiens cDNA clone ADCAEF09 5'
6320	19090	32078	1.62	2.0E-03	X84481.1	NT	L. esculentum mRNA for beta-RNA synthetase (LysRS)
6508	19271		1.16	2.0E-03	A1691088.1	EST_HUMAN	wc38009.x1 Scores_Diagnostic_cdon_NHCD Homo sapiens cDNA clone IMAGE:2522177 3' similar to SW:RL29 HUMAN P47914 cds RIBOSOMAL PROTEIN L29 ; contains element MSR1 repetitive element ; Z13111.1 Scores_fetal liver spleen_TNFLS_S1 Homo sapiens cDNA clone IMAGE:430652 3'
6541	19306	32311	0.91	2.0E-03	AA677831.1	EST_HUMAN	Z13111.1 Scores_fetal liver spleen_TNFLS_S1 Homo sapiens cDNA clone IMAGE:430652 3'
6882	17639	30575	1.62	2.0E-03	AB038602.1	NT	Caenorhabditis elegans mRNA for galeodin LEC-11, complete cds
6839	18074	32720	0.6	2.0E-03	5031864	NT	Homo sapiens lipoma HMGIC fusion partner (LHFP) mRNA
6939	19874	32721	0.6	2.0E-03	5031864	NT	Homo sapiens lipoma HMGIC fusion partner (LHFP) mRNA
6981	19505	32831	3.55	2.0E-03	BE067088.1	EST_HUMAN	CM4.BT0366-061209-054-051 BT0366 Homo sapiens cDNA
7044	19755	32795	0.58	2.0E-03	A1268883.1	EST_HUMAN	qm98411.x1 NCI CGAP Lu6 Homo sapiens cDNA clone IMAGE:1868885 3'
7183	19879	32853	0.8	2.0E-03	T88959.1	EST_HUMAN	y477910.t1 Scores_fetal liver spleen_TNFLS_Homo sapiens cDNA clone IMAGE:114306 5'
7617	20188	33281	1.18	2.0E-03	P07364	SWISSPROT	PROTEOLYCAN LINK PROTEIN PRECURSOR (CARTILAGE LINK PROTEIN) (LP)
7950	20645	33769	1.90	2.0E-03	AW592004.1	EST_HUMAN	H87506.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2934035 3' similar to TR-Q60976 Q60976 JERKY ;
8116	20610	33944	6.07	2.0E-03	N20287.1	EST_HUMAN	y47208.x1 Scores_melanocytes 2N6HM Homo sapiens cDNA clone IMAGE:284442 3' similar to contains L1.12.L1 repetitive element ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8116	20610	33945	8.07	2.0E-03	N20287.1	EST_HUMAN	y42908.s1 Soares melanocyte 2N4-M Homo sapiens cDNA clone IMAGE:284442 3' similar to contains L1b2 L1 repetitive element;
8162	20658	33987	0.64	2.0E-03	Q92350	SWISSPROT	HYPOTHETICAL 32.8 KD PROTEIN C636.05 IN CHROMOSOME 1
8184	20678	34015	1.19	2.0E-03	P19137	SWISSPROT	LAMININ ALPHA-1 CHAIN PRECURSOR (LAMININ A CHAIN)
8239	20633	34089	0.81	2.0E-03	6005856	NT	Homo sapiens Rafine-derived POU-domain factor-1 (RPF-1), mRNA
8239	20633	34070	0.81	2.0E-03	6005856	NT	Homo sapiens Rafine-derived POU-domain factor-1 (RPF-1), mRNA
8264	20658	34097	0.88	2.0E-03	AU136879.1	EST_HUMAN	AU136879 PLACET Homo sapiens cDNA clone PLACE1004839 5'
8318	21011		0.91	2.0E-03	AJ400877.1	NT	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
8570	21262	34400	0.54	2.0E-03	AB032586.1	NT	Oryctolagus cuniculus mRNA for eukaryotic polypeptide chain release factor 3, partial cds
9084	18418	31331	0.74	2.0E-03	AW768111.1	EST_HUMAN	MR2-UM0025-300300-102-402 UM0025 Homo sapiens cDNA
9094	18419	31332	0.74	2.0E-03	AW768111.1	EST_HUMAN	MR2-UM0025-300300-102-402 UM0025 Homo sapiens cDNA
9136	21827	34892	0.64	2.0E-03	AF24689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D) genes, complete cds
9426	22104	35276	0.89	2.0E-03	H50832.1	EST_HUMAN	y88608.s1 Soares fetal liver spleen INFILS Homo sapiens cDNA clone IMAGE:194206 3'
9426	22104	35277	0.89	2.0E-03	H50832.1	EST_HUMAN	y88608.s1 Soares fetal liver spleen INFILS Homo sapiens cDNA clone IMAGE:194206 3'
							TENASCIN PRECURSOR (TN) (HEXABRACHION) (CYTOTACTIN) (NEURONECTIN) (GNEM) (JI) (MOTENDINOUS ANTIGEN) (GLIOMA-ASSOCIATED-EXTRACELLULAR MATRIX ANTIGEN) (GP 180-226) (TENASCIN-C) (TN-C)
9458	22008	35178	3.46	2.0E-03	P24821	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
9568	22218	35404	1.38	2.0E-03	P48882	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
9568	22219	35405	1.38	2.0E-03	P48882	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE)
9623	22276	35484	0.53	2.0E-03	AF007732.1	NT	Homo sapiens caspase recruitment domain-containing protein (BCL10) gene, complete cds
9623	22276	35485	0.53	2.0E-03	AF007732.1	NT	Homo sapiens caspase recruitment domain-containing protein (BCL10) gene, complete cds
9815	22466	35668	0.81	2.0E-03	AW884289.1	EST_HUMAN	QV3-OT0064-060400-144-401 OT0064 Homo sapiens cDNA
9942	22590		5.75	2.0E-03	AA251378.1	EST_HUMAN	zai0068.s1 NCL CGAP GC81 Homo sapiens cDNA clone IMAGE:084754 3'
10508	23162	36377	0.45	2.0E-03	AW361176.1	EST_HUMAN	RC1-CT0251-141089-012-401 CT0251 Homo sapiens cDNA
10508	23162	36378	0.45	2.0E-03	AW361176.1	EST_HUMAN	RC1-CT0251-141089-012-401 CT0251 Homo sapiens cDNA
10638	23678		2.97	2.0E-03	M96524.1	NT	Human dystrophin gene
11470	20188	33281	2.58	2.0E-03	P07354	SWISSPROT	PROTEOGLYCAN LINK PROTEIN PRECURSOR (CARTILAGE LINK PROTEIN) (LP)
11531	24131		2.14	2.0E-03	BF330809.1	EST_HUMAN	RC3-BT0333-370800-115-g04 BT0333 Homo sapiens cDNA
11538	24138	37446	9.1	2.0E-03	Z11740.1	NT	H. sapiens variable number tandem repeat (VNTR) locus DNA
11909	24473		3.23	2.0E-03	AI025745.1	EST_HUMAN	y65803.s1 NCL CGAP_Kid1 Homo sapiens cDNA clone IMAGE:228398 3' similar to SW:VATG_MANSE
11928	24487	37807	2.41	2.0E-03	AF157616.2	NT	Q25532 VACUOLAR ATP SYNTHASE SUBUNIT G; Homo sapiens SEL1L (SEL1L) gene, partial cds

Table 4

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Probe Seq ID NO:	Exon Seq ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11949	24802	37810	2.41	2.0E-03	AJ084325.1	EST_HUMAN	9q34.08.x1 Soares_papillary thyroid tumor_NIHHPA Homo sapiens cDNA clone IMAGE:168834 3' similar to TRCP97835 P97835 PS-PLAT1 PRECURSOR. ;
11972	17907		9.37	2.0E-03	AJ245167.1	NT	Carneius dromedarius cytochrome 19 gene for immunoglobulin heavy chain variable region
12172	25381		2.98	2.0E-03	AV697968.1	EST_HUMAN	AV697968 GKC Homo sapiens cDNA clone GKC03005 5'
12282	24707	31050	1.78	2.0E-03	Y00808.1	NT	H. sapiens M1 gene for mucaic acid acetylcholine receptor
12433	25224		1.48	2.0E-03	AJ375037.1	EST_HUMAN	h3002.x1 Soares_tadit_NIHHPA Homo sapiens cDNA clone IMAGE:2046061 3' similar to contains Alu repetitive element;
12542	24882		1.64	2.0E-03	AF120758.1	NT	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G6d, G6e, G6f, BAT5, G6b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, IGT, LST-1, LTB, TNF, and LTA genes, complete cds
12713	25175		2.65	2.0E-03	AV697968.1	EST_HUMAN	AV697968 GKC Homo sapiens cDNA clone GKC03005 5'
429	13215	25890	1.28	1.0E-03	HB6471.1	EST_HUMAN	Y08008.x1 Soares_pituitary_gland_NIHHPA Homo sapiens cDNA clone IMAGE:232334 5'
810	13581	28248	2.31	1.0E-03	AJ720263.1	EST_HUMAN	Q13825 AU-BINDING PROTEIN ENOYL-COA HYDRATASE. ;
810	13581	28249	2.31	1.0E-03	AJ720263.1	EST_HUMAN	as705008.x1 Barbed codon HPLR87 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TRQ13825
1073	13831	28489	3.78	1.0E-03	AJ065788.1	EST_HUMAN	Q13825 AU-BINDING PROTEIN ENOYL-COA HYDRATASE. ;
1083	13851	28510	1.78	1.0E-03	AJ064672.1	EST_HUMAN	W08510.x1 NCI CGAP_Par1 Homo sapiens cDNA clone IMAGE:242258 3'
2021	14758	27488	3.38	1.0E-03	P47808	SWISSPROT	W08510.x1 NCI CGAP_Met15 Homo sapiens cDNA clone IMAGE:2851242 3'
2150	14880	27814	12.13	1.0E-03	AJ131018.1	NT	HIGH MOLECULAR WEIGHT FORM OF MYOSIN I (HMMI)
2879	15745	28593	1.37	1.0E-03	AB033117.1	NT	Homo sapiens SCL gene locus
3186	15949	28599	2.21	1.0E-03	P18915	SWISSPROT	Homo sapiens mRNA for KUA1291 protein, partial cds
3186	15949	28600	2.21	1.0E-03	P18915	SWISSPROT	CARBONIC ANHYDRASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED)
3656	18409		1.95	1.0E-03	AB044400.1	NT	CARBONIC ANHYDRASE VI (SALIVARY CARBONIC ANHYDRASE)
4402	17136	28767	1.28	1.0E-03	BE639162.1	EST_HUMAN	CARBONIC ANHYDRASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED)
4441	17177	28803	4.06	1.0E-03	BE246836.1	EST_HUMAN	CARBONIC ANHYDRASE VI (SALIVARY CARBONIC ANHYDRASE)
4616	17350	29685	0.84	1.0E-03	U20449.1	NT	Homo sapiens SVMT gene for synaptic vesicle monoamine transporter, exons 14, 15
4773	17505	30127	1.68	1.0E-03	AJ073485.1	EST_HUMAN	RC1-TN0128-160800-021-g01 TN0128 Homo sapiens cDNA
4773	17505	30128	1.68	1.0E-03	AJ073485.1	EST_HUMAN	RC1-TN0128-160800-021-g01 TN0128 Homo sapiens cDNA
4774	17506		4.29	1.0E-03	BE154087.1	EST_HUMAN	TCRAP1D-4908 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project:TCRA Homo sapiens cDNA clone TCRAp4909
5018	17739	30348	7.24	1.0E-03	O46409	SWISSPROT	Oemochelidella elegans spliced leader RNA (SL3 alpha), (SL4), and (SL5) genes
							ov45004.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1940282 3'
							ov45004.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1940282 3'
							PMO-HT0339-200400-010-D02 HT0339 Homo sapiens cDNA
							APOLIPOPROTEIN A-IV PRECURSOR (APO-AIV)

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6226	18032	30658	1.87	1.0E-03	AA230951.1	EST_HUMAN	Zs44801.L1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:700345 5'
5317	18121	30778	3.12	1.0E-03	AJ006345.1	NT	Homo sapiens KVLQ11 gene
5369	18170	30856	1.85	1.0E-03	K03332.1	NT	Epstein-Barr virus (Ag878 isolate) U2-IR2 domain encoding nuclear protein EBNA2, complete cds
5369	18170	30857	1.85	1.0E-03	K03332.1	NT	Epstein-Barr virus (Ag878 isolate) U2-IR2 domain encoding nuclear protein EBNA2, complete cds
5485	18284	31182	0.83	1.0E-03	BE789491.1	EST_HUMAN	60156984.F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3343954 5'
5491	18290	31187	2.07	1.0E-03	Q02388	SWISSPROT	COLLAGEN ALPHA (VI) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) LC COLLAGEN
5546	18343	31251	0.87	1.0E-03	N41874.1	EST_HUMAN	Y07003.L1 Soares melanocyte 2N4H1M Homo sapiens cDNA clone IMAGE:270587 5' similar to contains element MER6 repetitive element
5546	18343	31252	0.87	1.0E-03	N41874.1	EST_HUMAN	Y07003.L1 Soares melanocyte 2N4H1M Homo sapiens cDNA clone IMAGE:270587 5' similar to contains element MER6 repetitive element
5930	18714	31711	2.75	1.0E-03	X07099.1	NT	Mouse nucleolin gene
5968	18750	31711	1.07	1.0E-03	BE96339.2	EST_HUMAN	601657519R1 NIH_MGC 88 Homo sapiens cDNA clone IMAGE:3875693 3'
6098	18877		8.78	1.0E-03	11528176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6242	19016	31900	1.14	1.0E-03	T87761.1	EST_HUMAN	Y08341.L1 Soares fetal liver spleen TNF1S Homo sapiens cDNA clone IMAGE:115772 5'
6315	19086		1.7	1.0E-03	AW802885.1	EST_HUMAN	QV3-NN1024-280400-171-g05 NN1024 Homo sapiens cDNA
6657	19418	32432	1.37	1.0E-03	L77570.1	NT	Homo sapiens D1George syndrome critical region, centromeric and
7062	19743	32605	2.54	1.0E-03	D16828.1	NT	Human gene for fourth acromioclavicular receptor subtype
7639	20206	33308	1.8	1.0E-03	U62111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase 1 (CAMK1), creatine transporter (CRTTR), CDM protein (CDM), adrenoleukodystrophy protein >
7608	20274	33382	3.37	1.0E-03	IM83376.1	NT	Human TRPM-2 protein gene, exons 1,2 and 3
7696	20320	33429	0.98	1.0E-03	BE890044.1	EST_HUMAN	601491081F1 NIH_MGC 69 Homo sapiens cDNA clone IMAGE:3863278 5'
7799	20484	33909	0.83	1.0E-03	AF274581.1	NT	Homo sapiens prolactin-releasing peptide receptor gene, 5' flanking region
7850	20545	33973	5.18	1.0E-03	AJ251973.1	NT	Homo sapiens partial stearyl-1 gene
8043	20737	33970	1	1.0E-03	AA122270.1	EST_HUMAN	Zd07c08.s1 Soares pregnant uterus_NIH-IPU Homo sapiens cDNA clone IMAGE:490765 3' similar to contains L1.L1 repetitive element
8142	20836	33968	1.94	1.0E-03	AF103960.1	NT	Homo sapiens encasase-like protein 1 (EXTL1) gene, exons 2 through 11, and complete cds
8328	21022	34158	0.68	1.0E-03	U26397.1	NT	Rattus norvegicus plasma membrane Ca2+ ATPase isoform 3 (PMCA3) gene, 5' flanking region
8492	21184	34326	0.61	1.0E-03	AA001813.1	EST_HUMAN	Z882a06.s1 Soares fetal liver spleen INF1S_S1 Homo sapiens cDNA clone IMAGE:427810 3'
8492	21184	34327	0.61	1.0E-03	AA001813.1	EST_HUMAN	Z882a06.s1 Soares fetal liver spleen INF1S_S1 Homo sapiens cDNA clone IMAGE:427810 3'
8842	21834		1.36	1.0E-03	Y11204.1	NT	V. carteri gene encoding vulvospin
8869	21560	34705	0.62	1.0E-03	AW849363.1	EST_HUMAN	GM8-L1 10079-170200-992-907 LT0079 Homo sapiens cDNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8978	21068		0.58	1.0E-03	U52111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L16a (RPL16a), Ca2+/calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adenosine deaminase (ADA), and adenosine deaminase (ADA) protein >
9017	21707	34858	3.08	1.0E-03	M30471.1	NT	Human class III alcohol dehydrogenase (ADH3) cDNA, complete cds
9017	21707	34859	3.08	1.0E-03	M30471.1	NT	Human class III alcohol dehydrogenase (ADH3) cDNA, complete cds
9507	22160	35340	1.86	1.0E-03	AF011400.1	NT	Thermoga neopallens alpha-1,6-galactosidase (sglA) gene, complete cds
9507	22160	35341	1.86	1.0E-03	AF011400.1	NT	Thermoga neopallens alpha-1,6-galactosidase (sglA) gene, complete cds
9720	22371	35570	0.81	1.0E-03	Q01128	SWISSPROT	BONE PROTEOGLYCAN II PRECURSOR (PG-S2) (DECORIN) (PG40) (DERMATAN SULFATE PROTEOGLYCAN-II) (DSPG)
10063	22711	35929	0.85	1.0E-03	AF035520.1	NT	Homo sapiens glycocalyx 3 (GPC3) gene, partial cds and flanking repeat regions
10063	22716	35929	0.75	1.0E-03	AF097485.1	NT	Homo sapiens transducin beta-like 2 (TBL2) gene, complete cds
10214	22862	36075	1.72	1.0E-03	A1024360.1	EST_HUMAN	077503.L1 Soares, Jettie, NHT Homo sapiens cDNA clone IMAGE:1943175 3' similar to contains MIER39.b1 MIER39 MIER39 repetitive element:
10503	23149		0.46	1.0E-03	AA706202.1	EST_HUMAN	ag0312.2.1 Shiga toxin B subunit (STxB) cDNA clone IMAGE:1142093 3' similar to contains Alu repetitive element:
10563	23259	36495	1.79	1.0E-03	AW362393.1	EST_HUMAN	RC1-GT0279-181099-011-409 GT0279 Homo sapiens cDNA
10563	23259	36496	1.79	1.0E-03	AW362393.1	EST_HUMAN	RC1-GT0279-181099-011-409 GT0279 Homo sapiens cDNA
10561	23342	36580	2.78	1.0E-03	BE170899.1	EST_HUMAN	QV3-HT0049-220300-130-403 HT0049 Homo sapiens cDNA
10726	23413		3.20	1.0E-03	AI583847.1	EST_HUMAN	1873e12.x1 NCL_OGAP_HSC3 Homo sapiens cDNA clone IMAGE:2246446 3' similar to TR-028195 Q28195 PVA1 GENE:
10806	23491	36727	1.36	1.0E-03	AW237462.1	EST_HUMAN	3xnt2d12.x1 NCL_OGAP_Kd11 Homo sapiens cDNA clone IMAGE:2889761 3'
11106	23776		3.05	1.0E-03	AV759949.1	EST_HUMAN	AV759949 MDS Homo sapiens cDNA clone MDSOOF11 5'
11906	24470	37805	4.48	1.0E-03	BE894488.1	EST_HUMAN	907433087F1 NIH MGCG 72 Homo sapiens cDNA clone IMAGE:3918624 5'
12124	24610		1.38	1.0E-03	AV731520.1	EST_HUMAN	AV731520 HTP Homo sapiens cDNA clone HTFAJG06 5'
12371	25342		1.08	1.0E-03	AI347356.1	EST_HUMAN	1c05H11.x1 NCL_OGAP_C016 Homo sapiens cDNA clone IMAGE:2063013 3' similar to contains Alu repetitive element
12478	25365	30612	7.05	1.0E-03	BE780572.1	EST_HUMAN	907468970F1 NIH MGCG 87 Homo sapiens cDNA clone IMAGE:3872035 5'
12821	25187	30609	1.37	1.0E-03	AW847341.1	EST_HUMAN	R00-GT0279-240999-021-402 GT0279 Homo sapiens cDNA
5130	17848	30465	0.7	9.0E-04	P08543	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
5596	18391		1.28	9.0E-04	P06727	SWISSPROT	APOLIPOPROTEIN A-IV PRECURSOR (APO-AIV)
6165	18642		0.8	9.0E-04	AJ006345.1	NT	Homo sapiens KVLQ11 gene
8396	19164	32165	0.96	9.0E-04	P02381	SWISSPROT	MITOCHONDRIAL RIBOSOMAL PROTEIN VARI
9543	22186		1.42	9.0E-04	AB037203.1	NT	Glycerol kinase GpdAS1 mRNA for beta-amylin synthase, complete cds
1471	14216		1.02	8.0E-04	X08496.1	NT	Xlaevis mRNA for CASR protein

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4159	18899		4.37	8.0E-04	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
4713	17445	30078	2.39	8.0E-04	U29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
11092	23782		2.83	8.0E-04	AA77084.1	EST_HUMAN	224c10.a1 Soares fetal heart NH119W Homo sapiens cDNA clone IMAGE:377874 3'
11200	23828		1.98	8.0E-04	A157109.1	EST_HUMAN	1n85d08.x1 NCI CGAP U2 Homo sapiens cDNA clone IMAGE:2176310 3'
2388	15119	27866	0.87	7.0E-04	U29185.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
2718	15428	28164	1.19	7.0E-04	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3274	18035	28085	1	7.0E-04	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
6005	18796	31748	0.94	7.0E-04	AA516212.1	EST_HUMAN	1n55g12.s1 NCI CGAP U2 Homo sapiens cDNA clone IMAGE:939718 similar to contains L1.53 L1 L1
6420	19188		2.47	7.0E-04	A1786331.1	EST_HUMAN	1n36099.x1 Soares NSF F8 BW OT PA_P S1 Homo sapiens cDNA clone IMAGE:2367208 3'
7128	19818		0.78	7.0E-04	AK024445.1	NT	Homo sapiens mRNA for FLJ00355 protein, partial cds
9703	22354	35549	0.53	7.0E-04	P13497	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
9703	22354	35550	0.53	7.0E-04	P13497	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
11557	24156						Homo sapiens Brd1's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
11589	24185	37500	2.26	7.0E-04	U78027.1	NT	HSC2B/A072 normalized infant brain cDNA Homo sapiens cDNA clone c-28a07 3'
12642	24939		2.31	7.0E-04	R17338.1	EST_HUMAN	1n35065.1 Soares Infant brain IN1B Homo sapiens cDNA clone IMAGE:32298 5'
12689	24939		5.98	7.0E-04	6005855	NT	Homo sapiens RefSeq-derived POU-domain factor-1 (RPF-1), mRNA
3941	16981	29329	1.83	8.0E-04	A1662525.1	EST_HUMAN	1n55f11.x1 NCI CGAP K472 Homo sapiens cDNA clone IMAGE:2402878 3'
4088	16812	29440	0.78	8.0E-04	K01315.1	NT	Homo sapiens epistatin-1 pseudogene (GHEP1) gene, 5' flanking region
4088	16812	29441	0.78	8.0E-04	K01315.1	NT	Homo sapiens epistatin-1 pseudogene (GHEP1) gene, 5' flanking region
4182	16802	29431	3.79	8.0E-04	U45963.1	NT	Homo sapiens COR8 chemokine receptor (CXCR8) gene, complete cds
7478	20151	33245	0.81	8.0E-04	Q15034	SWISSPROT	GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE (FRUCTOSE TRANSPORTER)
7795	20461		3.33	8.0E-04	P48408	SWISSPROT	1n54a11.s1 Soares pituitary gland N3HPG Homo sapiens cDNA clone IMAGE:231958 3' similar to contains
7914	20609		0.62	8.0E-04	H62947.1	EST_HUMAN	LOR1 repetitive element
9880	22530		3.5	8.0E-04	AL048507.2	EST_HUMAN	DKFZp566M2024.1 588 (synonym: luter) Homo sapiens cDNA clone DKFZp566M2024
9880	22628	35837	2.26	8.0E-04	BE009590.1	EST_HUMAN	RC2-EN0120-250400-012-111 BN0120 Homo sapiens cDNA
10238	22888		0.71	8.0E-04	AF267478.1	NT	Lycichinus variegatus embryonic blastocoel extracellular matrix protein precursor (ECM8) mRNA, complete
11467	24070	37378	2.53	8.0E-04	A122042.1	NT	Homo sapiens 950 kb contig between AML1 and CBR1 on chromosome 21q22, segment 2/3
11658	24157	37487	3.46	8.0E-04	AW013847.1	EST_HUMAN	UHL-B10-sub-e-09-Q-UI-1 NCI CGAP SubT Homo sapiens cDNA clone IMAGE:2708826 3'
11693	24233		2.17	8.0E-04	Q01708	SWISSPROT	NUCLEOSIDE DIPHOSPHATE KINASE B (NDK B) (NDP KINASE B) (NM23-M2) (P18)
12082	25249		2.81	8.0E-04	AW380519.1	EST_HUMAN	RC1-HT0259-261198-012-408 HT0259 Homo sapiens cDNA

Page 186 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12816	22058		1.34	5.0E-04	AI817088.1	EST_HUMAN	w79g11.x1 NCI_CGAP_Lut19 Homo sapiens cDNA clone IMAGE:2408804 3' similar to contains element L1 repetitive element
836	13415	29051	6.81	5.0E-04	O10341	SWISSPROT	HYPOPHYSICAL 29.3 KD PROTEIN (ORF52)
1480	14237		1.4	5.0E-04	AW851844.1	EST_HUMAN	QVQ-C10225-021089-030-407 C10225 Homo sapiens cDNA
3408	19106	28815	1.35	5.0E-04	AA549831.1	EST_HUMAN	nk27e11.x1 NCI_CGAP_Co11 Homo sapiens cDNA clone IMAGE:1014784 3' similar to contains Alu repetitive element
3704	16457	29086	2.32	5.0E-04	Q9UKP4	SWISSPROT	ADAM-TS 7 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 7) (ADAMTS-7) (ADAM-TS7)
6386	18186	30877	2.99	5.0E-04	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
8332	19208	32303	7.89	5.0E-04	AA159080.1	EST_HUMAN	z033b08.r1 Striped cat (9837204) Homo sapiens cDNA clone IMAGE:568663 5'
7276	19960	33037	3.75	5.0E-04	M23604.1	NT	Gorilla gorilla lysozyme gene medium allele, complete cds
7858	20551	33677	5.2	5.0E-04	AI188382.1	EST_HUMAN	q01306.x1 Sources_piscaria_8c5dweela_2NHIP8d9W Homo sapiens cDNA clone IMAGE:172819 3' similar to gp-XG1002_cds1 VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR 1 (HUMAN); contains Alu repetitive element
8202	20906	34033	0.96	5.0E-04	AA814516.1	EST_HUMAN	cb09602.x1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1339226 3' similar to contains element MER22 repetitive element
9177	21847	35013	1.39	5.0E-04	AA846546.1	EST_HUMAN	q159f03.x1 Sources_testis_NHT Homo sapiens cDNA clone IMAGE:1394357 3'
9271	22025	35195	0.88	5.0E-04	N63765.1	EST_HUMAN	KK2745F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone KX2745 5' similar to REPETITIVE ELEMENT
9418	22066	35288	1.44	5.0E-04	P28128	SWISSPROT	BIFUNCTIONAL ENDO-1,4-BETA-XYLANASE XYL1 PRECURSOR
9609	22152	35344	4.1	5.0E-04	AW270938.1	EST_HUMAN	z00602.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2708888 3'
10177	22825		0.48	5.0E-04	U50871.1	NT	Human familial Alzheimer's disease (STM2) gene, complete cds
10897	23577		2.38	5.0E-04	ALD48607.2	EST_HUMAN	DKFZp668K2024_1 586 (synonym: hube1) Homo sapiens cDNA clone DKFZp668K2024
11713	18186	30877	14.08	5.0E-04	AF248054.1	NT	Bos taurus micromolar calcium activated neutral protease 1 (CAPN1) gene, exons 11-20, and partial cds
12020	25184		5.04	5.0E-04	AA688513.1	EST_HUMAN	mf18f02.x1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:913875
868	13435	28076	1.46	4.0E-04	U32748.1	NT	Haemophilus influenzae Rd section 63 of 163 of the complete genome
827	13597	28287	1.79	4.0E-04	A1720283.1	EST_HUMAN	as7b000.x1 Barsted codon HPLR37 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR-Q13825
827	13597	28288	1.79	4.0E-04	A1720283.1	EST_HUMAN	as7b000.x1 Barsted codon HPLR37 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR-Q13825
1449	14198	28880	3.18	4.0E-04	AW753366.1	EST_HUMAN	Q13825 AU-BINDING PROTEIN ENOYL-COA HYDRATASE ;
2076	14807	27538	1.81	4.0E-04	AL163278.2	NT	RC3-C10254-130100-023-R1 C10254 Homo sapiens cDNA Homo sapiens chromosome 21 segment HS21C078

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
2129	14880		1	4.0E-04	AL046704.1	EST_HUMAN	DKFZp434D059.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D059.5
2633	15345	28088	2.21	4.0E-04	O98615	SWISSPROT	SERPIN-2 (SILK GUM PROTEIN 2)
3182	15925	28572	0.95	4.0E-04	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
4289	17028	29683	3.18	4.0E-04	AA576331.1	EST_HUMAN	h10a10.s1 NCI CGAP_Cot1 Homo sapiens cDNA clone IMAGE:561830.3 similar to gb:M21121 T-CELL SPECIFIC RANTES PROTEIN PRECURSOR (HUMAN);
4289	17028	29684	3.18	4.0E-04	AA576331.1	EST_HUMAN	h10a10.s1 NCI CGAP_Cot1 Homo sapiens cDNA clone IMAGE:562870.3
4500	17236	29688	1.76	4.0E-04	AA086324.1	EST_HUMAN	zrf1c08.1 Stratiogene muscle 937208 Homo sapiens cDNA clone IMAGE:562870.3
5028	17748	30390	3.1	4.0E-04	BE560680.1	EST_HUMAN	801349895F1 NIH_MGC 8 Homo sapiens cDNA clone IMAGE:3878910.5
7168	19855	32925	1.3	4.0E-04	P48442	SWISSPROT	EXTRACELLULAR CALCIUM-SENSING RECEPTOR PRECURSOR (CASR) (PARATHYROID CELL CALCIUM-SENSING RECEPTOR)
7434	20111		0.76	4.0E-04	AL161506.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 66
7618	20284	33304	0.96	4.0E-04	AJ122076.1	EST_HUMAN	AJ122076 MAMMA1 Homo sapiens cDNA clone MAMMA1001620.5
8434	21127	34264	1.07	4.0E-04	BF240712.1	EST_HUMAN	h18176985F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4099700.5
8442	21134	34270	1.5	4.0E-04	N28507.1	EST_HUMAN	y498912.r1 Soares melanocyte 2N18HM Homo sapiens cDNA clone IMAGE:294142.5
9590	22243	35428	3.24	4.0E-04	AI025959.1	EST_HUMAN	ov67h03.s1 Soares testis NIH Homo sapiens cDNA clone IMAGE:184341.3
8740	22391		1.22	4.0E-04	AF022855.1	NT	Mus musculus neuropilin-2 (N2) mRNA, alternatively spliced, complete cds
12380	25157		2.05	4.0E-04	AF254822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
152	12967	26908	3.46	3.0E-04	AL119426.1	EST_HUMAN	DKFZp761J221.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J221.5
180	13003	25844	1.24	3.0E-04	P48259	SWISSPROT	180 KD SECRETORY PHOSPHOLIPASE A2 RECEPTOR PRECURSOR (PLA2-R)
800	13028	26300	1.32	3.0E-04	A03967.1	NT	Human short chain acyl CoA dehydrogenase gene, exons 1 and 2
1831	14570	27282	1.08	3.0E-04	AI282700.1	EST_HUMAN	qz28d03.y1 NCI CGAP_P28 Homo sapiens cDNA clone IMAGE:2028187.5
1846	14584		1.21	3.0E-04	A1399674.1	EST_HUMAN	h123d02.x1 NCI CGAP_P28 Homo sapiens cDNA clone IMAGE:2118082.3
3303	16084	28712	3.43	3.0E-04	P25147	SWISSPROT	INTERVALIN B PRECURSOR
3308	16068	28717	0.7	3.0E-04	AA203342.1	EST_HUMAN	z466d04.r1 Soares fetal liver spleen INFLS_S1 Homo sapiens cDNA clone IMAGE:446478.5
3946	16906	29335	4.07	3.0E-04	P40448	SWISSPROT	GLUTAMATE DEHYDROGENASE 2 PRECURSOR (GDH)
4034	16779		1.33	3.0E-04	AJ271735.1	NT	Homo sapiens X4 pseudobacterial region; segment 1/2
4722	16816		1.12	3.0E-04	BE140806.1	EST_HUMAN	RCO-HT0014-310599-028 HT0014 Homo sapiens cDNA
4769	17498		4.72	3.0E-04	BE163778.1	EST_HUMAN	PMO-HT00339-100200-007-g12 HT00339 Homo sapiens cDNA
4821	17558	30180	0.95	3.0E-04	AA637723.1	EST_HUMAN	QV3-DT0045-221289-046-d08 DT0045 Homo sapiens cDNA
5083	17782	30389	0.96	3.0E-04	AA613145.1	EST_HUMAN	mp08g09.s1 NCI CGAP_Lut Homo sapiens cDNA clone IMAGE:1143328.3
8062	18832		7.86	3.0E-04	AL163261.2	NT	Homo sapiens chromosome 21 segment HS21C081
8722	19556	32586	2.82	3.0E-04	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
7491	20163	33256	0.84	3.0E-04	P23468	SWISSPROT	PROTEIN-TYROSINE PHOSPHATASE DELTA PRECURSOR (R-PTP-DELTA)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6167	20851	33963	3.23	3.0E-04	P22607	SWISSPROT	FIBROBLAST GROWTH FACTOR RECEPTOR 3 PRECURSOR (FGFR-3)
9820	22471	35673	1.34	3.0E-04	AA454055.1	EST_HUMAN	z448008.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:795471 5' similar to gb:M62762
10078	22728	35943	0.65	3.0E-04	AB92139.1	EST_HUMAN	VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (HUMAN)
10356	23003	36220	3.73	3.0E-04	AA781201.1	EST_HUMAN	w75a11.11 Soares_thymus_NHT Homo sapiens cDNA clone IMAGE:2513276 3'
10465	23141	36387	0.54	3.0E-04	P13816	EST_HUMAN	42405.81 Soares_testis_NHT Homo sapiens cDNA clone 1391288 3' similar to gb:M39072 90S
11553	24154	37466	1.38	3.0E-04	4501960	NT	RIBOSOMAL PROTEIN L7A (HUMAN)
						SWISSPROT	GLUTAMIC ACID-RICH PROTEIN PRECURSOR
						NT	Homo sapiens adrenergic, alpha-1A-, receptor (ADRA1A), mRNA
11978	25398	30617	4.81	3.0E-04	AA228301.1	EST_HUMAN	nc38a04.1 NC1_CGAP_P22 Homo sapiens cDNA clone IMAGE:1010430 similar to contains L1.2 L1
12338	25230	30818	3.08	3.0E-04	AB018282.1	NT	repetitive element:
12730	25000		2.75	3.0E-04	AL134463.1	EST_HUMAN	Homo sapiens mRNA for KIAA0749 protein, partial cds
						EST_HUMAN	DKFZp547L185_J1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547L185 5'
171	12984	25624	2.85	2.0E-04	AF217780.1	NT	Homo sapiens SOG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related
466	13251	26692	1.8	2.0E-04	AB014670.1	EST_HUMAN	protein 1 (ARFRP1) genes, complete cds
887	13656	26324	10.71	2.0E-04	M86524.1	NT	AU146707 HEMBB1 Homo sapiens cDNA clone HEMBB1001283 3'
887	13656	26325	10.71	2.0E-04	M86524.1	NT	Human dyctrophin gene
						NT	Human dyctrophin gene
1156	13911		3.93	2.0E-04	AL286021.1	EST_HUMAN	q46a11.11 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1855052 3' similar to contains
1163	13917		2.18	2.0E-04	AL163203.2	NT	MER3 b2 MER3 repetitive element:
1824	14903		1.12	2.0E-04	AF224268.1	NT	Homo sapiens chromosome 21 segment HS21C003
						NT	Mus musculus 5' flanking region of Pib3 gene
2591	15296	28033	4.47	2.0E-04	U66061.1	NT	Human germline T-cell receptor beta chain TORBV17S1A1T, TORBV2S1, TORBV10S1P, TORBV28S1P,
2596	15762	28398	1.11	2.0E-04	AF124529.1	EST_HUMAN	TORBV18S1P, TORBV18S1, TORBV11S1A1T, HV8 relic, TORBV28S1P, TORBV34S1, TORBV14S1,
3328	10088	28740	1.1	2.0E-04	5174736	NT	TORBV3S1, TORBVAS1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TORBD1, TORBJ1S1, TORBJ1S2,>
3429	16186	28834	1.99	2.0E-04	BE082317.1	EST_HUMAN	en58a09.11 Johnson frontal cortex Homo sapiens cDNA clone IMAGE:139780 3'
3902	16942	29282	0.78	2.0E-04	AW078441.1	EST_HUMAN	Homo sapiens tubulin, beta, 4 (TUBB4) mRNA
4122	16884		4.93	2.0E-04	U01029.1	NT	EST330550 MAGC resequences, MAGP Homo sapiens cDNA
4620	17355	29980	1.74	2.0E-04	H86286.1	EST_HUMAN	Phaeosphaera vulgaris nitrate reductase (PNR2) gene, complete cds
4620	17355	29981	1.74	2.0E-04	H86286.1	EST_HUMAN	y01e11.11 Soares_pituitary_gland_N3HPG Homo sapiens cDNA clone IMAGE:232558 5'
4742	17474		1.03	2.0E-04	J069226.1	NT	y01e11.11 Soares_pituitary_gland_N3HPG Homo sapiens cDNA clone IMAGE:232558 5'
4998	17721	30324	1.1	2.0E-04	AB037897.1	NT	Gallus gallus proteasome 28 kDa subunit homolog mRNA, complete cds
						NT	Danio rerio hagurum gene, exons 1 to 6, partial cds

Page 189 of 536
Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5090	17808	30424	1.04	2.0E-04	P35748	SWISSPROT	MYOSIN HEAVY CHAIN, SMOOTH MUSCLE ISOFORM (SMHHC)
5407	18256	31146	0.73	2.0E-04	AV654332.1	EST_HUMAN	AV654332 GLO Homo sapiens cDNA clone GLODH10 3'
5408	18258	31160	1.75	2.0E-04	A160862.1	EST_HUMAN	1q35b12.11 Scieria_bellei_NHT Homo sapiens cDNA clone IMAGE:2207769 3'
5664	18459	31373	0.98	2.0E-04	AA206852.1	EST_HUMAN	EST111091 Uterus Homo sapiens cDNA 5' and similar to EST containing O family repeat
5857	18844	31584	0.81	2.0E-04	4788179	NT	Homo sapiens cell cycle progression 3 protein (DN3) mRNA
6144	18922	31892	0.59	2.0E-04	AF140708.1	NT	Mus musculus G protein coupled receptor gene, complete cds; and unknown gene
7130	19818		2.6	2.0E-04	AU121712.1	EST_HUMAN	AU121712 MAMMA1 Homo sapiens cDNA clone MAMMA100788 5'
7225	19910		0.56	2.0E-04	AW800963.1	EST_HUMAN	QVQ-CT0387-180300-167-a10 CT0387 Homo sapiens cDNA
7520	20191		14.88	2.0E-04	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
7530	20200	33295	1.42	2.0E-04	P64286	SWISSPROT	MYOMESIN 2 (M-PROTEIN) (165 KD TITIN-ASSOCIATED PROTEIN) (165 KD CONNECTIN-ASSOCIATED PROTEIN)
7858	20500	33675	1.06	2.0E-04	U32444.2	NT	Solanum lycopersicum phytochrome F (PHYF) gene, partial cds
7855	20550	33678	1.08	2.0E-04	U32444.2	NT	Solanum lycopersicum phytochrome F (PHYF) gene, partial cds
8182	20878	34012	1.23	2.0E-04	AB026886.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8182	20878	34013	1.23	2.0E-04	AB026886.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8483	21155	34298	1.96	2.0E-04	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphatase hydrolase (FHT) gene, exon 5
8842	21334	34478	0.49	2.0E-04	X67331.1	NT	Human immunoglobulin C(mu) and C(delta) heavy chain genes (constant regions)
9233	21812	35086	0.49	2.0E-04	AA725700.1	EST_HUMAN	ad22a12.1 Scieria_bellei_NHT Homo sapiens cDNA clone 1343518 3'
9319	21896	35195	0.6	2.0E-04	P18716	SWISSPROT	GASTRITIS ZINC FINGER PROTEIN XLOC28.1
9875	22525	35710	1.19	2.0E-04	BE146903.1	EST_HUMAN	RC3-HT0254-161089-011-508 HT0254 Homo sapiens cDNA
9916	22555	35781	1.77	2.0E-04	AA405777.1	EST_HUMAN	zud8c11.1 Scieria_bellei_NHT Homo sapiens cDNA clone IMAGE:742884 5'
10755	23440	36684	5.23	2.0E-04	AV730373.1	EST_HUMAN	AV730373 HTF Homo sapiens cDNA clone HTFAA01 5'
11128	23796		1.61	2.0E-04	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
11276	23937	37229	3.06	2.0E-04	AH40282.1	EST_HUMAN	101111 Lx1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2140289 3' similar to contains Alu repetitive element
11403	24052	37356	2.86	2.0E-04	AW136740.1	EST_HUMAN	UHL-B10-aaB-e-08-0-0-U1.1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717100 3'
11857	24441	37782	2.77	2.0E-04	AB21304.1	EST_HUMAN	1979b10.05 Stratiotes ovary (6037217) Homo sapiens cDNA clone IMAGE:77371 3'
1053	13912	28472	3.3	1.0E-04	P11309	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
1092	13950	28508	4.74	1.0E-04	AW013847.1	EST_HUMAN	UHL-B10-aaB-e-08-0-0-U1.1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'
1092	13950	28509	4.74	1.0E-04	AW013847.1	EST_HUMAN	UHL-B10-aaB-e-08-0-0-U1.1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11692	24287	37609	2.01	1.0E-04	AW269061.1	EST_HUMAN	hw9g12.x1 Sources_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2816618 3'
11725	24318	37643	2	1.0E-04	Q03998	SWISSPROT	NEURONAL-GLIAL CELL ADHESION MOLECULE PRECURSOR (NG-CAM)
11726	24319	37644	2	1.0E-04	Q03998	SWISSPROT	NEURONAL-GLIAL CELL ADHESION MOLECULE PRECURSOR (NG-CAM)
12131	25203		2.51	1.0E-04	BE576398.1	EST_HUMAN	722a10.x1 NCL_CGAP_GLI1 Homo sapiens cDNA clone IMAGE:3290058 3' similar to contains L1, L2, L3 repetitive element;
1667	13457	26102	2.78	9.0E-05	AA718933.1	EST_HUMAN	af45c11.1 Sources_testis_NHT Homo sapiens cDNA clone 1262468 3'
1902	14733	27455	1.14	9.0E-05	AW66218.1	EST_HUMAN	QV4-SN0229-070400-106-004 SH0223 Homo sapiens cDNA
5873	18690	31001	1.81	9.0E-05	Q60716	SWISSPROT	PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
7476	20149	33242	0.6	9.0E-05	AW204958.1	EST_HUMAN	UHH-B11-ser-4-05-0-01.1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2720289 3'
7476	20149	33243	0.6	9.0E-05	AW204958.1	EST_HUMAN	UHH-B11-ser-4-05-0-01.1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2720289 3'
9378	21951		3.02	9.0E-05	D56000.1	NT	Homo sapiens gene for cholesteryltransferin type-A receptor, complete cds
9378	21953	35125	2.78	9.0E-05	AF120982.1	NT	Homo sapiens methyl-CpG binding protein 1 (MBD1) gene, exon 1b
11082	23752	37027	2.68	9.0E-05	AW073078.1	EST_HUMAN	aa34q05.x1 NCL_CGAP_Br18 Homo sapiens cDNA clone IMAGE:2568728 3' similar to contains L1, L2, L3 repetitive element;
11207	23870	37155	1.75	9.0E-05	AC287878.1	EST_HUMAN	qv23r06.x1 NCL_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:1982435 3' similar to contains element
11617	19990	31601	3.5	9.0E-05	Q00718	SWISSPROT	MIR repetitive element; PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
12178	26259		8.63	9.0E-05	AF129759.1	NT	Homo sapiens MSH-65 gene, partial cds; and CLIC1, DD4H, G6b, G6c, G6d, G6e, G6f, BAT5, G6h, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete cds
802	13574	20237	1.97	8.0E-05	AJ251946.1	NT	Pisum sativum mRNA for beta-1,3 glucanase (gr2 gene)
844	13814		2.75	8.0E-05	AJ251948.1	NT	Pisum sativum mRNA for beta-1,3 glucanase (gr2 gene)
2950	16716		0.73	8.0E-05	M83575.1	NT	Human platelet-derived growth factor A chain (PDGFA) gene, exons only
4448	17184	28808	0.87	8.0E-05	AV044603.1	EST_HUMAN	wy78q4.x1 Sources_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2554638 3'
11098	23789	37045	1.84	8.0E-05	M09197.1	NT	Human heptoglobin and heptoglobin-related protein (HP and HPR) genes, complete cds
12795	26242		4.65	8.0E-05	AA276933.1	EST_HUMAN	aa88f01.1 NCL_CGAP_G081 Homo sapiens cDNA clone IMAGE:704593 3' similar to contains Alu repetitive element; contains element MSRT1 repetitive element;
337	13198	26773	1.14	7.0E-05	AW847446.1	EST_HUMAN	RC3-CT0208-220999-011-E04 CT0208 Homo sapiens cDNA
337	13198	26774	1.14	7.0E-05	AW847446.1	EST_HUMAN	RC3-CT0208-220999-011-E04 CT0208 Homo sapiens cDNA
554	13337	25985	1.1	7.0E-05	L48073.1	EST_HUMAN	HUM072014F Human fovea cDNA Homo sapiens cDNA clone EST HFD072014
554	13337	25986	1.1	7.0E-05	L48075.1	EST_HUMAN	HUM072014F Human fovea cDNA Homo sapiens cDNA clone EST HFD072014
1033	13793	26453	1.4	7.0E-05	Q22946	SWISSPROT	PROBABLE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR (GPAT)
2724	10431	28188	2.99	7.0E-05	AL163278.2	NT	Homo sapiens chromosome 21 segment HS210078

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3156	15019	28565	5.72	7.0E-05	AB009080.1	NT	Dicotyledonum discoidium gene for TRFA, complete cds
4339	17078	28707	1.71	7.0E-05	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4412	17149	28778	0.95	7.0E-05	U60880.1	NT	Caenorhabditis elegans Slp1p homolog mRNA, complete cds
4871	17598	30221	0.71	7.0E-05	68453001	EST	Rat cytomegaloherpes Masm1rht, complete genome
8124	20818	33954	1.09	7.0E-05	AA005692.1	EST_HUMAN	h93g01.s1 NCI CGAP Br2 Homo sapiens cDNA clone IMAGE:966098 3'
9453	22003	35175	2.97	7.0E-05	T07095.1	EST_HUMAN	EST104984 Fetal brain, Striatum (cat403620) Homo sapiens cDNA clone HFBED80
11112	22782	37484	3.08	7.0E-05	10835048	NT	Homo sapiens seroglycan, spliced (SGCE), mRNA
2020	14755	27484	1.89	6.0E-05	4885170	NT	Homo sapiens chromosome X open reading frame 8 (CXORF8) mRNA
2020	14755	27485	1.89	6.0E-05	4885170	NT	Homo sapiens chromosome X open reading frame 8 (CXORF8) mRNA
2865	15309	28048	1.19	6.0E-05	AI085241.1	EST_HUMAN	h454h06.s1 NCI CGAP CG9 Homo sapiens cDNA clone IMAGE:2306631 3' similar to gb:U03250 DNA
2890	15369	28137	1.1	6.0E-05	Z84506.1	NT	TOPISOMERASE1 (HUMAN);
2890	15369	28138	1.1	6.0E-05	Z84506.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA28810
2817	13440	20280	3.07	6.0E-05	AF053630.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA28810
5822	18911	31541	3.61	6.0E-05	Q12860	SWISSPROT	Homo sapiens monocytic leukemia cell line, complete cds
5822	18911	31542	3.61	6.0E-05	Q12860	SWISSPROT	CONTACTIN PRECURSOR (GLYCOPROTEIN GP135)
8309	18081	32068	1.4	6.0E-05	U72829.1	EST_HUMAN	CONTACTIN PRECURSOR (GLYCOPROTEIN GP135)
8634	19498	32520	0.95	6.0E-05	AA087690.1	EST_HUMAN	y60g11.r1 Soares fetal liver spleen NFLS Homo sapiens cDNA clone IMAGE:246212 5'
7983	20678	33903	0.76	6.0E-05	BE064410.1	EST_HUMAN	g80a03.s1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1604588 3'
7983	20678	33904	0.76	6.0E-05	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-H08 B10311 Homo sapiens cDNA
8942	21035	34172	0.82	6.0E-05	AA150482.1	EST_HUMAN	RC4-BT0311-141199-011-H08 B10311 Homo sapiens cDNA
8347	21040	34177	2.22	6.0E-05	AW086620.1	EST_HUMAN	208208.s1 Soares pregnant uterus, NHRPU Homo sapiens cDNA clone IMAGE:491728 3' similar to contains element MER28 repetitive element;
8479	21171	34316	0.83	6.0E-05	P08401	SWISSPROT	PN4-NN0050-310300-001-410 NN0050 Homo sapiens cDNA
9151	21882	35050	1.21	6.0E-05	P08907	SWISSPROT	COMPLEMENT DECAY-ACCELERATING FACTOR PRECURSOR
8151	21882	35051	1.21	6.0E-05	P08907	SWISSPROT	CAB-BINDING PROTEIN PRECURSOR (CABP)
9421	22069	35271	0.89	6.0E-05	T04149.1	EST_HUMAN	CAB-BINDING PROTEIN PRECURSOR (CABP)
9621	22274	35462	0.95	6.0E-05	AW827695.1	EST_HUMAN	y62e12.r1 Striatum lung (8637210) Homo sapiens cDNA clone IMAGE:119062 5'
10649	23340	36578	3.08	6.0E-05	R76939.1	EST_HUMAN	h37/603.s1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2974444 3'
11502	24103	37415	3.36	6.0E-05	AA044015.1	EST_HUMAN	y56408.s1 Soares placenta NHRPU Homo sapiens cDNA clone IMAGE:145335 3' similar to contains Alu repetitive element; contains LTR1 repetitive element;
12387	25239	30822	14.84	6.0E-05	AW860110.1	EST_HUMAN	z45802.r1 Soares pregnant uterus, NHRPU Homo sapiens cDNA clone IMAGE:487035 5'
12810	25053	36023	1.4	6.0E-05	BE589403.1	EST_HUMAN	MRO-NT00339-250400-001-609 NT00339 Homo sapiens cDNA
1352	14129	28802	10.46	6.0E-05	AW392086.1	EST_HUMAN	7p28a08.s1 NCI CGAP Brm23 Homo sapiens cDNA clone IMAGE:3307798 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1855	14593		1.2	5.0E-05	8623891	NT	Homo sapiens 230Da paradoxical membrane protein-like (L00558565), mRNA
2557	15296	28001	1.1	5.0E-05	P23249	SWISSPROT	PROTEIN MOV-10
3661	16710	28350	2.41	5.0E-05	AJ251854.1	NT	Homo sapiens partial SL C22A3 gene for extracellular monomeric transporter (EMT), exon 1
5074	17793	30408	0.72	5.0E-05	Q28422	SWISSPROT	IMMULUS CLOTTING FACTOR C PRECURSOR (FC)
5074	17793	30408	0.72	5.0E-05	Q28422	SWISSPROT	IMMULUS CLOTTING FACTOR C PRECURSOR (FC)
5438	18237	30651	13.38	5.0E-05	X68855.1	NT	Human MLC1 gene for embryonic myosin alkaline light chain, 3'UTR
5603	18688	31638	3.75	5.0E-05	AV83544.1	EST_HUMAN	AV83544 GLC Homo sapiens cDNA clone GLC/MAD6 3'
5070	18655	31822	0.96	5.0E-05	AF280225.1	NT	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
7231	19618		0.87	5.0E-05	AB037064.1	NT	Mus musculus gene for cathepsin, exon 1
12176	24810		3.64	5.0E-05	P49183	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
12440	24810		4.72	5.0E-05	P49183	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
2810	13032		3.84	4.0E-05	U12821.1	NT	Human renin (REN) gene, 5' flanking region
4449	17185	29809	0.73	4.0E-05	P49183	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
4449	17185	29810	0.73	4.0E-05	P49183	SWISSPROT	RETINAL-BINDING PROTEIN (RALBP)
4820	17651		1.16	4.0E-05	AF164488.1	NT	Cryptosporidium parvum isolate Zaire 16 kDa glycoprotein gp15 gene, partial cds
4955	17681	30289	0.75	4.0E-05	AF212313.1	NT	Drosophila melanogaster senseless protein (sens) gene, complete cds
8841	19503	32528	0.74	4.0E-05	U01947.1	NT	Mus musculus haptoglobin (HP) gene, 5' region
9423	22101		7.57	4.0E-05	AF202635.1	NT	Homo sapiens PP1200 mRNA, complete cds
9901	22550	35745	0.47	4.0E-05	P11369	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
10306	22953	36188	0.59	4.0E-05	P23780	SWISSPROT	BETA-GALACTOSIDASE PRECURSOR (LACTASE) [ACID BETA-GALACTOSIDASE]
10498	23359	36599	4.18	4.0E-05	AW827946.1	EST_HUMAN	h39c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2874380 3' similar to contains element MIR repetitive element;
12140	24028		1.48	4.0E-05	AW117690.1	EST_HUMAN	x22403.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2806182 3'
12798	25041		1.71	4.0E-05	AA417766.1	EST_HUMAN	z01611.x1 NCI_CGAP_G081 Homo sapiens cDNA clone IMAGE:746282 3'
685	13441	28082	1.0	3.0E-05	AI246001.1	EST_HUMAN	q04610.x1 Soares_fetal_liver_spleen_NFLUS_S1 Homo sapiens cDNA clone IMAGE:1849458 3' similar to contains Alu repetitive element/contains element KER repetitive element;
1037	13797	28457	0.86	3.0E-05	AW273851.1	EST_HUMAN	x22403.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814100 3'
1109	13868	28523	1.01	3.0E-05	BF037898.1	EST_HUMAN	601451463F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3665142 5'
1109	13868	28524	1.01	3.0E-05	BF037898.1	EST_HUMAN	601451463F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3665142 5'
3287	19048		0.73	3.0E-05	AI288018.1	EST_HUMAN	q07911.x1 Soares_NHIMpu_S1 Homo sapiens cDNA clone IMAGE:1878748 3' similar to ITR-006832
4349	17088	29719	7.98	3.0E-05	BE198211.1	EST_HUMAN	CO6832 GLYCINE TYROSINE-RICH HAIR PROTEIN ;
4349	17088	29720	7.98	3.0E-05	BE198211.1	EST_HUMAN	PM1-HT0521-120200-001-4710 HT0521 Homo sapiens cDNA
4349	17088	29720	7.98	3.0E-05	BE198211.1	EST_HUMAN	PM1-HT0521-120200-001-4710 HT0521 Homo sapiens cDNA

Page 194 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4434	17170	26798	0.94	3.0E-05	AA368679.1	EST_HUMAN	EST179898 Placenta Homo sapiens cDNA similar to p53-associated protein
4434	17170	26798	0.94	3.0E-05	AA368679.1	EST_HUMAN	EST179898 Placenta Homo sapiens cDNA similar to p53-associated protein
4500	17285		0.90	3.0E-05	AL106302.2	NT	Homo sapiens chromosome 21 segment HS21G102
4688	17420	30066	1	3.0E-05	P97488	SWISSPROT	CHEMOKINE RECEPTOR-LIKE 1 (G-PROTEIN COUPLED RECEPTOR DEZ)
4785	13441	26082	0.82	3.0E-05	A1248061.1	EST_HUMAN	qf84c10.x1 Source, fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:1846458 3' similar to contains Alu repetitive element; contains element KER repetitive element;
4791	17522	30144	0.97	3.0E-05	AU126721.1	EST_HUMAN	AU126721 NT2RM4 Homo sapiens cDNA clone NT2RM4002075 5'
5470	18288	31161	1.08	3.0E-05	11072102	NT	Mus musculus myosin light chain 2, precursor lymphocyte-specific (Myo2pl), mRNA
6658	19419	32433	1.17	3.0E-05	AJ225782.1	NT	Homo sapiens SYBL1 gene, exons 6-8
6658	19419	32434	1.17	3.0E-05	AJ225782.1	NT	Homo sapiens SYBL1 gene, exons 6-8
7706	20494	33816	2.33	3.0E-05	BE73187.1	EST_HUMAN	001567451F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3842282 5'
8250	20544	34082	1.47	3.0E-05	AA284040.1	EST_HUMAN	z88005.x1 Stratiotes schizobrain S11 Homo sapiens cDNA clone IMAGE:701841 3'
8791	21483	34630	1.58	3.0E-05	AW770982.1	EST_HUMAN	h84408.x1 NCI_QGAP_Lu24 Homo sapiens cDNA clone IMAGE:3006038 3'
8791	21487	34633	1.22	3.0E-05	0912431	NT	Homo sapiens Interleukin-1 receptor antagonist homolog 1 (IL1HY1), mRNA
8798	21491	34638	0.51	3.0E-05	P43361	SWISSPROT	MELANOMA-ASSOCIATED ANTIGEN 8 (MAGE-8 ANTIGEN)
9028	21719		0.56	3.0E-05	X03273.1	NT	Human Alu-family cluster 6 of alpha(1)-acid glycoprotein gene
9220	21896	35098	1.22	3.0E-05	AA372562.1	EST_HUMAN	EST184475 Odon adenocarcinoma IV Homo sapiens cDNA 5' end
9563	22216		2.82	3.0E-05	A176833.1	EST_HUMAN	wg36069.x1 Source, NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2387209 3'
10433	23079	36303	0.98	3.0E-05	Q62918	SWISSPROT	PROTEIN KINASE C-BINDING PROTEIN NELL2 PRECURSOR (NELL-LIKE PROTEIN 2)
10433	23079	36304	0.98	3.0E-05	Q62918	SWISSPROT	PROTEIN KINASE C-BINDING PROTEIN NELL2 PRECURSOR (NELL-LIKE PROTEIN 2)
12072	24585		1.77	3.0E-05	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
2323	15048	27784	1.09	2.0E-05	A1286021.1	EST_HUMAN	qf88a11.x1 Source, NFL_T_OBG_S1 Homo sapiens cDNA clone IMAGE:1855052 3' similar to contains
2587	15301	28037	2.43	2.0E-05	IM13762.1	NT	MERS b2 MERS repetitive element;
2718	15425		7.45	2.0E-05	AA180562.1	EST_HUMAN	Human adenocarcinoma (ADA) gene, complete cds
3134	15888	28544	1.23	2.0E-05	BE006038.1	EST_HUMAN	zylf6r12.r1 Stratiotes hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:032734 5' similar to contains Alu repetitive element; contains element L1 repetitive element;
3343	16102	28764	0.93	2.0E-05	AF184814.1	NT	RC3 BT0319-1-20200-014-h08 BT0319 Homo sapiens cDNA
3345	16121	28770	1.22	2.0E-05	X89211.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
3486	18242		0.71	2.0E-05	X85465.1	NT	H. sapiens DNA for endogenous retroviral like element
3787	18538		0.78	2.0E-05	AL039107.1	EST_HUMAN	S. cerevisiae 12.8 Kbp fragment of the left arm of chromosome XV
4943	17377		1.00	2.0E-05	BE378471.1	EST_HUMAN	DKFZp6861094.r1 5688 (synonym: hlfk22) Homo sapiens cDNA clone DKFZp6861094 5'
5672	18487	31382	1.92	2.0E-05	AJ011712.1	NT	601238455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3008653 5'
						NT	Homo sapiens TNNT1 gene, exons 1-11 (end joined CDS)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5827	18016		0.83	2.0E-05	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinase gene families
5880	18898	31808	0.78	2.0E-05	Q13183	SWISSPROT	RENAL SODIUM/DICARBOXYLATE COTRANSPORTER (NA ⁺ /DICARBOXYLATE COTRANSPORTER)
5880	18898	31807	0.78	2.0E-05	Q13183	SWISSPROT	RENAL SODIUM/DICARBOXYLATE COTRANSPORTER (NA ⁺ /DICARBOXYLATE COTRANSPORTER)
6085	18844	31808	0.61	2.0E-05	A149272.1	EST_HUMAN	967262.x1 Soares_placenta_860weeks_2Ndr-IP808W Homo sapiens cDNA clone IMAGE:1715114.3'
6527	19293	32297	2.28	2.0E-05	A4714330.1	EST_HUMAN	similar to contains L1/L1.1 repetitive element;
6801	19482	32483	3.27	2.0E-05	Y08028.1	NT	mm06d12.s1 NCI_CGAP_SST1 Homo sapiens cDNA clone IMAGE:1238519.3'
6814	19476	32497	1.12	2.0E-05	A149280.1	EST_HUMAN	P. falciparum mRNA for AARP1 protein, partial
6824	19485		9.37	2.0E-05	A1891025.1	EST_HUMAN	Q27111 PRO-POLYDIPYRIMIDINE POLYPROTEIN;
7053	19744	32808	1.83	2.0E-05	AF224282.1	NT	wu3507.x1 Soares_Disclonase_cdn_NHGD Homo sapiens cDNA clone IMAGE:2522077.3'
7053	18744	32807	1.83	2.0E-05	AF224282.1	NT	Heterodentus frandisi HoxA10 (HoxA10), HoxA9 (HoxA9), HoxA7 (HoxA7), HoxA6 (HoxA6), HoxA5 (HoxA5), HoxA4 (HoxA4), HoxA3 (HoxA3), HoxA2 (HoxA2), and HoxA1 (HoxA1) genes, complete cds
7267	18851		0.83	2.0E-05	AF128847.1	NT	Heterodentus frandisi HoxA10 (HoxA10), HoxA9 (HoxA9), HoxA7 (HoxA7), HoxA6 (HoxA6), HoxA5 (HoxA5), HoxA4 (HoxA4), HoxA3 (HoxA3), HoxA2 (HoxA2), and HoxA1 (HoxA1) genes, complete cds
7785	20480	33805	1.71	2.0E-05	A381040.1	EST_HUMAN	Homo sapiens Inductylamine N-methyltransferase (NMT) mRNA, NM1-2 allele, complete cds
9020	21710	34882	0.83	2.0E-05	BE244840.1	EST_HUMAN	ig2005.x1 NCI_CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2108369.3'
9020	21710	34883	0.83	2.0E-05	BE244840.1	EST_HUMAN	TCBAP2E1800 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP1800
9187	21837	35002	0.88	2.0E-05	P40467	SWISSPROT	TCBAP2E1800 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP1800
9187	21837	35003	0.88	2.0E-05	P40467	SWISSPROT	COMPLEMENT DEGRADATION-ACCELERATING FACTOR (CD55)
9823	22474	35877	0.49	2.0E-05	AL103207.2	NT	COMPLEMENT DEGRADATION-ACCELERATING FACTOR (CD55)
10035	22683	35900	0.87	2.0E-05	BF056839.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21G007
10457	23103	36333	0.54	2.0E-05	A1131024.1	NT	717506.y1 NCI_CGAP_Bn20 Homo sapiens cDNA clone IMAGE:3340578.5'
10457	23103	36334	0.54	2.0E-05	A1131024.1	NT	Homo sapiens class gene, exon 1-alpha
10489	23135	36382	1.96	2.0E-05	N41751.1	EST_HUMAN	Homo sapiens class gene, exon 1-alpha
10489	23135	36382	1.96	2.0E-05	N41751.1	EST_HUMAN	9691806.r1 Soares_placenta_860weeks_2Ndr-IP808W Homo sapiens cDNA clone IMAGE:258570.5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10489	23135	36393	1.98	2.0E-05	N41751.1	EST_HUMAN	yy691a06.1 Sources_pleocenta_860weeks_2N8HP8c9W Homo sapiens cDNA clone IMAGE:289670 6'
10541	19485		2.42	2.0E-05	A091026.1	EST_HUMAN	hw35607.x1 NCL CGAP Disintegrin_codon_NHCO Homo sapiens cDNA clone IMAGE:2522077 3'
11287	23948	37243	1.33	2.0E-05	A463285.1	EST_HUMAN	830H09.x1 NCL CGAP Gase4 Homo sapiens cDNA clone IMAGE:2132033 3' similar to TR-Q13538 Q13538 ORF2: FUNCTION UNKNOWN.
11287	23948	37244	1.33	2.0E-05	A463285.1	EST_HUMAN	830H09.x1 NCL CGAP Gase4 Homo sapiens cDNA clone IMAGE:2132033 3' similar to TR-Q13538 Q13538 ORF2: FUNCTION UNKNOWN.
11430	23187	36428	2.27	2.0E-05	BET18601.1	EST_HUMAN	ROS-HT0582-280300-07-E12 HT0582 Homo sapiens cDNA clone IMAGE:3165532 3' similar to TR-Q12632
12185	25168		4.86	2.0E-05	BE348229.1	EST_HUMAN	hw21a03.x1 NCL CGAP_Kd11 Homo sapiens cDNA clone IMAGE:3165532 3' similar to TR-Q12632
12342	25155		2.27	2.0E-05	AF279448.1	NT	Homo sapiens ABCA1 (ABCA1) gene, complete cds
12674	25247		1.44	2.0E-05	D16583.1	NT	Human gene for L-Histidine decarboxylase, complete cds
2285	14891	27331	3.22	1.0E-05	P27448	SWISSPROT	PUTATIVE SERINE/THREONINE-PROTEIN KINASE P78
2700	15003	28143	1.9	1.0E-05	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
3641	16394	28034	1.91	1.0E-05	AF088273.1	NT	Drosophila melanogaster strain Laribo 120 Suppressor of Hairless (Su(H)) gene, partial cds
3793	16545		1.02	1.0E-05	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3849	16669	28637	9.2	1.0E-05	P81274	SWISSPROT	MOSAIC PROTEIN LGN
4152	16894	28623	1.2	1.0E-05	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21G003
4244	16885	29008	2.82	1.0E-05	AA431119.1	EST_HUMAN	z68904.1 Sources_16d15 NHT Homo sapiens cDNA clone IMAGE:781494 5'
4799	17930	30152	1.81	1.0E-05	AW419134.1	EST_HUMAN	xy69111.x1 NCL CGAP_Lu84.1 Homo sapiens cDNA clone IMAGE:2896648 3'
6653	19415	32428	1.22	1.0E-05	AJ246003.1	NT	Homo sapiens Spast gene for spastin protein
6860	19005	32930	2.98	1.0E-05	AA611846.1	EST_HUMAN	ms1902.x1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1184114 3' similar to contains L1.H L1
6882	19075	32722	3.28	1.0E-05	4805844	NT	L1 repetitive element;
7671	20341		1.16	1.0E-05	P19474	SWISSPROT	Homo sapiens phospholipase A2, group X (PLA2G10) mRNA, and translated products
8613	21605		2.24	1.0E-05	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8958	21640	34790	3.02	1.0E-05	AA462578.1	EST_HUMAN	z63512.x1 Sources_16d15 NHT Homo sapiens cDNA clone IMAGE:789519 3' similar to
9187	21857	35022	12.45	1.0E-05	AA236110.1	EST_HUMAN	gb126832 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN);
9206	22020	35189	0.82	1.0E-05	AV732190.1	EST_HUMAN	z635111.1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:684332 5' similar to contains Aliu repetitive element; contains element TAR1 repetitive element;
9736	22989	35693	0.74	1.0E-05	AW610802.1	EST_HUMAN	AV732190 HTE Homo sapiens cDNA clone HTFBH01 5'
							hd41602.x1 Sources_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912043 3' similar to contains
							OFF.H1 OFF repetitive element;

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9738	22386	35594	0.74	1.0E-05	AW510602.1	EST_HUMAN	1441602.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2812043 3' similar to contains
9816	22487	35689	1.16	1.0E-05	AW291621.1	EST_HUMAN	OFRL1 OFR repetitive element;
9816	22487	35670	1.16	1.0E-05	AW291621.1	EST_HUMAN	UHH-B12-epk-a-08-0-U1a1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724398 3'
10084	22732		1.87	1.0E-05	AW466965.1	EST_HUMAN	UHH-B12-epk-a-08-0-U1a1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724398 3'
							1447010.x1 NCI CGAP_KH12 Homo sapiens cDNA clone IMAGE:2873010 3' similar to contains L1.12 L1 repetitive element
10636	23518	36760	1.07	1.0E-05	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (H1A-H) gene, Rofet gene, and sodium phosphate transporter (NPT3) gene, complete cds
10636	23518	36761	1.07	1.0E-05	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (H1A-H) gene, Rofet gene, and sodium phosphate transporter (NPT3) gene, complete cds
11954	24438	37780	1.36	1.0E-05	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cDNA clone IMAGE:2246388 3'
2578	15357	28126	4.8	9.0E-06	AF583811.1	EST_HUMAN	1473406.x1 NCI CGAP_HSC3 Homo sapiens cDNA clone IMAGE:2246388 3'
3002	15857	28488	3.55	9.0E-06	AF218983.1	EST_HUMAN	qg11608.x1 Soares_pilcenta_810sweska_2NB1P9169W Homo sapiens cDNA clone IMAGE:1759191 3'
3597	16360		2.82	9.0E-06	M61755.1	NT	Human elastin-glycylate aminotransferase (AGXT) gene, exons 1 and 2
5815	18904	31532	2.81	9.0E-06	L23416.1	NT	Homo sapiens differentiation antigen CD20 gene, exons 5, 6
6785	19509	32534	0.8	9.0E-06	BE069042.1	EST_HUMAN	RC1-BT0313-110500-017-a07 BT0313 Homo sapiens cDNA
7340	20021	33098	0.85	9.0E-06	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
7673	20337	33460	13.94	9.0E-06	AF034370.1	EST_HUMAN	ac20g01.x1 Soares_fetal_liver_spleen_1NPLS_S1 Homo sapiens cDNA clone IMAGE:1659812 3' similar to contains Alu repetitive element
8365	21056	34197	1.1	9.0E-06	AF163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8881	21572	34715	2.86	9.0E-06	Q63709	SWISSPROT	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)
8881	21572	34716	2.86	9.0E-06	Q63760	SWISSPROT	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)
9122	21810	34976	4.3	9.0E-06	U36114.1	NT	Human apolipoprotein E (APOE) gene, hepatic control region HCR-2
10558	23338	36784	3.40	9.0E-06	Q10304	SWISSPROT	PUTATIVE SERINE/THREONINE KINASE C22E12.14C
2532	15987	27986	1.27	8.0E-06	AF362538.1	EST_HUMAN	RC3-OT283-201199-011-411 C70283 Homo sapiens cDNA
10430	23076	36298	0.75	8.0E-06	P34083	SWISSPROT	FASIGLII, PHOSPHATIDYLINOSITOL-LINKED ISOFORM PRECURSOR (FAS II)
10430	23076	36299	0.75	8.0E-06	P34083	SWISSPROT	FASIGLII, PHOSPHATIDYLINOSITOL-LINKED ISOFORM PRECURSOR (FAS II)

Page 198 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
868	13723		2.68	7.0E-06	AA068728.1	EST_HUMAN	ab00410.x1 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:854251 3' similar to contains
1419	14167	26851	3.42	7.0E-06	7682177	NT	MER20.11 MER20 repetitive element ; Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
2876	15643		5.93	7.0E-06	AI388262.1	EST_HUMAN	q16g09.x1 NCI_OGAP_U8 Homo sapiens cDNA clone IMAGE:1691286 3' similar to contains Alu repetitive
3551	16306		0.92	7.0E-06	AA385542.1	EST_HUMAN	element;
5609	18403		5.98	7.0E-06	AW883141.1	EST_HUMAN	EST198205 Thyroid Homo sapiens cDNA 5' end similar to EST1 containing L1 repeat
5715	18503	31429	1.01	7.0E-06	N68045.1	EST_HUMAN	QV2-OT0082-250400-173-001 OT0082 Homo sapiens cDNA
							yy65007.r1 Soares multiple sclerosis 2'Nt-MSP Homo sapiens cDNA clone IMAGE:278412 5'
8688	21380	34524	0.7	7.0E-06	11420708	NT	Homo sapiens DNA segment, numerous copies, expressed probes (SS1 gene) (DXF88S1E), mRNA
8800	22451		0.45	7.0E-06	Q61147	SWISSPROT	CERULOPLASMIN PRECURSOR (FERROXIDASE)
11930	25336	30608	2.32	7.0E-06	BF219672.1	EST_HUMAN	801881522F1 NIH_JMGC_57 Homo sapiens cDNA clone IMAGE:4063972 5'
2018	15884	28329	1.28	6.0E-06	BE069180.1	EST_HUMAN	QV3-BT0379-010300-105-d11 BT0379 Homo sapiens cDNA
3680	16433	29076	1.08	6.0E-06	BE069180.1	EST_HUMAN	QV3-BT0379-010300-105-d11 BT0379 Homo sapiens cDNA
4705	15708	28339	1.91	6.0E-06	Q01436	SWISSPROT	OVARIAN ABUNDANT MESSAGE PROTEIN (OAM PROTEIN)
							ac08a02.x1 Soares fetal liver, spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:1655738 3' similar to
4710	17442	30074	2.21	6.0E-06	AI040089.1	EST_HUMAN	contains MER8.12 MER8 repetitive element ;
5265	18071	30700	1.32	6.0E-06	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
5324	18127	30787	1.06	6.0E-06	Q02040	SWISSPROT	PROTEIN XE7
6768	22407		1.48	6.0E-06	AW801912.1	EST_HUMAN	IL5-UM0070-110400-053-g02 UM0070 Homo sapiens cDNA
12765	25016	30979	2.27	6.0E-06	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
5970	18752	31713	3.27	6.0E-06	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
6245	18019	31893	2.91	5.0E-06	U07561.1	NT	Human ABL gene, exon 1b and intron 1b, and putative M8004 Met protein (M8004 Met), complete cds
7134	19821	32887	1.1	5.0E-06	AB007546.1	NT	Homo sapiens gene for LECT2, complete cds
8359	21052	34192	0.53	5.0E-06	AW859072.1	EST_HUMAN	RC1-CT0302-120200-013-M2 CT0302 Homo sapiens cDNA
8369	21062	34193	0.53	5.0E-06	AW859072.1	EST_HUMAN	RC1-CT0302-120200-013-M2 CT0302 Homo sapiens cDNA
10002	22060	35862	6.16	5.0E-06	AA313820.1	EST_HUMAN	EST185468 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
10410	23056	36273	0.45	5.0E-06	P06981	SWISSPROT	COMPLEMENT C3 PRECURSOR (C3/C5 CONVERTASE)
12848	24953	30987	2.93	5.0E-06	AI085045.1	EST_HUMAN	HA0877 Human fetal liver cDNA library Homo sapiens cDNA
632	13411	28048	6.1	4.0E-06	R16287.1	EST_HUMAN	ye4803.r1 Soares infant brain IN1B Homo sapiens cDNA clone IMAGE:53254 5' similar to contains Alu
828	13586	28286	7.07	4.0E-06	AW103354.1	EST_HUMAN	repetitive element; contains L1 repetitive element ; repetitive element; contains element MER21 repetitive element ;

Table 4

Single Exon Probes Expressed in Brain

Probe Seq ID NO.	Exon Seq ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1311	14059	26733	4.64	4.0E-06	A1334928.1	EST_HUMAN	1833409.x1 NCI CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056188 3'
1311	14059	26734	4.64	4.0E-06	A1334928.1	EST_HUMAN	1833409.x1 NCI CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056188 3'
1467	14204	26889	1.8	4.0E-06	BF366612.1	EST_HUMAN	QV2-NT0046-200600-250-H07 NT0046 Homo sapiens cDNA
2261	14698	27128	2.17	4.0E-06	AW015401.1	EST_HUMAN	U1H-B10-est-05-0-0-1 NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2710425 3'
3050	15825	29471	0.9	4.0E-06	AF196346.1	NT	Gallus gallus Dc12 protein (Dc12) mRNA, complete cds
3874	16624	29262	1.05	4.0E-06	AW848206.1	EST_HUMAN	L3-CT0214-150200-074-B03 CT0214 Homo sapiens cDNA
4766	17488	30115	1.89	4.0E-06	A1866639.1	EST_HUMAN	W84c10.x1 NCI CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2432562 3' similar to contains element MER22 repetitive element;
8997	21090	34225	0.56	4.0E-06	O18303	SWISSPROT	TRANSMEMBRANE PROTEASE, SERINE 2
8999	21351	34536	3.56	4.0E-06	AF009690.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
9007	22280	35446	1.24	4.0E-06	AJ272895.1	NT	Homo sapiens SPP2 gene for secreted phosphoprotein 24 precursor, exons 1-8
11427	23194	36425	4.21	4.0E-06	AB007065.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0488
2100	14890	27024	1.75	3.0E-06	AA700592.1	EST_HUMAN	284b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432683 3' similar to contains L1.H1 repetitive element;
2160	14900	27626	1.76	3.0E-06	AA700592.1	EST_HUMAN	284b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432683 3' similar to contains L1.H1 repetitive element;
2203	14989		1.44	3.0E-06	AF202035.1	NT	Homo sapiens PP1200 mRNA, complete cds
2022	15988	28332	1.05	3.0E-06	AA868218.1	EST_HUMAN	LTR1 repetitive element;
3266	16021		2.05	3.0E-06	A1867719.1	EST_HUMAN	W22a03.x1 NCI CGAP_U1 Homo sapiens cDNA clone IMAGE:2425616 3' similar to TRC060734 O60734 LINE-1 LIKE PROTEIN contains L1.L2 L1 repetitive element;
3783	16515	29152	1.13	3.0E-06	BE047094.1	EST_HUMAN	h84d12.x1 NCI CGAP_HN13 Homo sapiens cDNA clone IMAGE:3124151 3'
3783	16515	29153	1.13	3.0E-06	BE047094.1	EST_HUMAN	h84d12.x1 NCI CGAP_HN13 Homo sapiens cDNA clone IMAGE:3124151 3'
4524	17259	29683	3.74	3.0E-06	XG4816.1	NT	Homo sapiens gene for alpha-1-microglobulin-bikunin, exons 1-5 (encoding alpha-1-microglobulin, N-terminus.)
8088	18847	31811	0.93	3.0E-06	AU156412.1	EST_HUMAN	AU156412 THYRO11 Homo sapiens cDNA clone THYRO1001002 3'
7120	18817		2.43	3.0E-06	P08648	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
7981	20676	33901	0.83	3.0E-06	BE562064.1	EST_HUMAN	90139621F31 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3560314 5'
8584	21276	34413	0.86	3.0E-06	P07743	SWISSPROT	PAROTID SECRETORY PROTEIN PRECURSOR (PSP)
12340	24755		3.64	3.0E-06	AW386282.1	EST_HUMAN	RGL-UT001-267189-011-A03 LT0001 Homo sapiens cDNA
197	13010		2.81	2.0E-06	P54368	SWISSPROT	HOMEOBOX PROTEIN GOOSECOID
1581	14308		4.45	2.0E-06	P21414	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]
2376	15096	27838	4.8	2.0E-06	A1672138.1	EST_HUMAN	W84d03.x1 NCI CGAP_J0d11 Homo sapiens cDNA clone IMAGE:2297088 3' similar to contains MER30.b1 MER30 repetitive element;

Page 200 of 536

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2469	15187	27826	2.37	2.0E-06	P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
2571	15285	28023	1.98	2.0E-06	P06719	SWISSPROT	KNOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHRP)
3309	16295	28919	1.12	2.0E-06	A056755.1	EST_HUMAN	AV557555 GLC Homo sapiens cDNA clone GLGFD805.3'
3744	18467	29132	1.59	2.0E-06	AA173518.1	EST_HUMAN	p02a05.t1 Strategic orient carrier (6037219) Homo sapiens cDNA clone IMAGE:585232.5'
3753	18505	29141	0.82	2.0E-06	AW460215.1	EST_HUMAN	UI-H-BIG-alky-05-0-U1.e1 NC1 CGAP_Subs Homo sapiens cDNA clone IMAGE:2736176.3'
3759	19510	29146	1.82	2.0E-06	AB030896.1	NT	Mus musculus gene for odorant receptor A16, complete cds
5968	18779		0.03	2.0E-06	A0974832.1	EST_HUMAN	cr34h01.s1 NC1 CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1668809.3' similar to cortactin Alu repetitive element
6028	18809	31798	0.83	2.0E-06	A0539448.1	EST_HUMAN	hs5105.x1 Soares_NFL_I GRG_S1 Homo sapiens cDNA clone IMAGE:2000241.3' similar to TRQ19537
6348	19118	32108	5.47	2.0E-06	AB10424.1	EST_HUMAN	Q13337 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE ;
7818	20913		1.03	2.0E-06	AW869223.1	EST_HUMAN	MR3_S100067-120400-002-02 SN0067 Homo sapiens cDNA
7988	20683	33809	0.57	2.0E-06	T12238.1	EST_HUMAN	A4478_Hnt Homo sapiens cDNA clone A447
8735	21427		0.6	2.0E-06	AA72497.1	EST_HUMAN	2k27c11.s1 Soares_pined_gland_N3HPG Homo sapiens cDNA clone IMAGE:413300.3' similar to TRP70467 P70467 REVERSE TRANSCRIPTASE ;
8747	21439	34556	1.8	2.0E-06	H62051.1	EST_HUMAN	W37G04.L1 Soares_ovary_tumor_NH0T Homo sapiens cDNA clone IMAGE:235074.5' similar to gb:374629
9118	21804	34989	0.82	2.0E-06	AF003529.1	NT	KERATIN, TYPE II CYTOSKELETAL 8 (HSPAN);
9116	21804	34970	0.82	2.0E-06	AF003529.1	NT	Homo sapiens glycopin 3 (GPC3) gene, partial cds and flanking repeat regions
9135	21823		0.46	2.0E-06	AA73450.1	EST_HUMAN	Homo sapiens glycopin 3 (GPC3) gene, partial cds and flanking repeat regions
9800	22253	35438	1	2.0E-06	N30578.1	EST_HUMAN	g1610.x1 NC1 CGAP_Gues4 Homo sapiens cDNA clone IMAGE:2741730.3'
9819	22470		0.63	2.0E-06	AV748898.1	EST_HUMAN	yw6a03.s1 Soares_pleocenta_BioSwissia_ZN6HP10p0W Homo sapiens cDNA clone IMAGE:267212.3'
12251	23357	30009	2.1	2.0E-06	P23249	SWISSPROT	AV748898 NPC Homo sapiens cDNA clone IMAGE:267212.3'
32	12860	25477	2.36	1.0E-06	O76082	SWISSPROT	PROTEIN MOV-10
942	13421	26000	2.62	1.0E-06	AF063564.1	NT	ORGANIC CATION/CARNITINE TRANSPORTER 2 (SOLUTE CARRIER FAMILY 22, MEMBER 5) (HIGH AFFINITY SODIUM-DEPENDENT CARNITINE CO-TRANSPORTER)
1434	14181	26996	1.61	1.0E-06	P00126	SWISSPROT	Mus musculus DNM46 protein (DNM46) mRNA, complete cds
1514	14261	26947	1.67	1.0E-06	AL183782.2	NT	MEROZOTIC SURFACE PROTEIN CMZ-8
1564	14311	26997	1.27	1.0E-06	AA034141.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C078
1664	14311	26998	1.27	1.0E-06	AA034141.1	EST_HUMAN	z06a12.s1 Soares_fetal_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429682.3' similar to contains Alu repetitive element
1578	14325		1.34	1.0E-06	P27626	SWISSPROT	z06a12.s1 Soares_fetal_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429682.3' similar to contains Alu repetitive element
							DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1987	14723	27443	5.09	1.0E-06	AF184814.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
1987	14723	27444	5.09	1.0E-06	AF184814.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
4336	17075	28703	12.81	1.0E-06	U07661.1	NT	Human ABL gene, exon 1b and intron 1b, and putative M9604 Met protein (M9604 Met) gene, complete cds
5208	18016	30638	5.07	1.0E-06	BF333015.1	EST_HUMAN	MR1-EBT0800-030700-002-008 BT0800 Homo sapiens cDNA
6232	18038	30696	0.83	1.0E-06	BE834518.1	EST_HUMAN	MR3-FN0004-090800-001-004 FN0004 Homo sapiens cDNA
6232	18038	30696	0.83	1.0E-06	BE834518.1	EST_HUMAN	MR3-FN0004-090800-001-004 FN0004 Homo sapiens cDNA
5089	18189	30881	1.22	1.0E-06	O90613	SWISSPROT	15 kDa SELENOPROTEIN PRECURSOR
5706	18500		0.78	1.0E-06	BE065627.1	EST_HUMAN	CMD-BT0281-031190-087-004 BT0281 Homo sapiens cDNA
6773	18517	32545	0.81	1.0E-06	P02671	SWISSPROT	FIBRINOGEN ALPHA1-CHAIN PRECURSOR
7644	25427		0.83	1.0E-06	BE186330.1	EST_HUMAN	IL6-HIT070-020500-074-g01 HT0700 Homo sapiens cDNA
7900	20595		0.77	1.0E-06	AA912623.1	EST_HUMAN	gp5402.x1 NCI CGAP C68 Homo sapiens cDNA clone IMAGE:1524878 3'
8171	20865	33997	1.2	1.0E-06	AB347010.1	EST_HUMAN	gp5402.x1 NCI CGAP C68 Homo sapiens cDNA clone IMAGE:1028842 3'
8337	21080	34215	1.31	1.0E-06	AU287878.1	EST_HUMAN	9v2303.x1 NCI CGAP Lymph Homo sapiens cDNA clone IMAGE:1862435 3' similar to contains element MIR repetitive element
8204	22083	35255	0.84	1.0E-06	N74635.1	EST_HUMAN	2a5501.a1 Source fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:266472 3'
8279	22093	35205	0.85	1.0E-06	Q35575	SWISSPROT	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM
9581	22234	35417	4.28	1.0E-06	U82688.1	NT	Homo sapiens shox gene, alternatively spliced products, complete cds
9581	22234	35418	4.28	1.0E-06	U82688.1	NT	Homo sapiens shox gene, alternatively spliced products, complete cds
9527	22290	35470	4.78	1.0E-06	AA132811.1	EST_HUMAN	2a17008.f1 Striatogene colon (#837204) Homo sapiens cDNA clone IMAGE:587174 5'
9698	22340		3.37	1.0E-06	AA449257.1	EST_HUMAN	2a04411.a1 Source, fetal, N242H9, JW Homo sapiens cDNA clone IMAGE:785463 3' similar to
10385	23031		1.08	1.0E-06	AL163263.2	NT	g05D28129 RIBONUCLEASE PANCREATIC PRECURSOR (HUMAN);
11648	24245		3.85	1.0E-06	AW860441.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
11724	24318	37641	1.38	1.0E-06	AA104914.1	EST_HUMAN	RC4-NT0054-120500-012-003 NT0054 Homo sapiens cDNA
11724	24318	37642	1.38	1.0E-06	AA104914.1	EST_HUMAN	SW-POL_SMSAV P03359 POL POLYPYRROLINE ;
12360	14723	27443	1.79	1.0E-06	AF184814.1	NT	SW-POL_SMSAV P03359 POL POLYPYRROLINE ;
12360	14723	27444	1.79	1.0E-06	AF184814.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
351	13150	25780	2.24	9.0E-07	AF003528.1	NT	Homo sapiens p47-phox (NCF1) gene, complete cds
351	13150	25791	2.24	9.0E-07	AF003528.1	NT	Homo sapiens dyllactin 3 (GPC3) gene, partial cds and flanking repeat regions
8308	21000		0.83	9.0E-07	AL163260.2	NT	Homo sapiens dyllactin 3 (GPC3) gene, partial cds and flanking repeat regions
11212	23875	37181	2.87	9.0E-07	AL163261.2	NT	Homo sapiens chromosome 21 segment HS21C080

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11733	24238	37660	1.3	9.0E-07	AF087913.1	NT	Human endogenous retrovirus HERV-P-147D
4719	17451	30084	3.26	8.0E-07	AI288596.1	EST_HUMAN	g82207.x1 Sources, NHMPu, S1 Homo sapiens cDNA clone IMAGE:1878876 3'
4719	17451	30085	3.26	8.0E-07	AI288596.1	EST_HUMAN	g82207.x1 Sources, NHMPu, S1 Homo sapiens cDNA clone IMAGE:1878876 3'
6766	18687		9.43	8.0E-07	P21414	SWISSPROT	POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]
7901	20568		9.73	8.0E-07	AF135416.1	NT	Homo sapiens UDP-glucuronyltransferase gene, complete cds
11522	24219		6.59	8.0E-07	T07770.1	EST_HUMAN	EST105660 Fetal brain, Striatum (cat#935206) Homo sapiens cDNA clone HBEN89
11912	24478		8.22	8.0E-07	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1858	14596	27312	0.91	7.0E-07	AF167341.1	NT	Homo sapiens membrane interleukin 1 receptor accessory protein (L1RAP) gene, exons 10 and 11
5432	18231	30944	0.72	7.0E-07	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
5432	18231	30945	0.72	7.0E-07	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
1905	14642	27352	2.96	6.0E-07	AW855558.1	EST_HUMAN	CM3-CT0277-221069-024-e11 CT0277 Homo sapiens cDNA
2486	15213	27956	4.92	9.0E-07	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytokine P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKIZW), RD, complement factor B (Bf), and complement component C2 (C2) genes, >
3655	16705		1.83	6.0E-07	P41470	SWISSPROT	HYPOTHETICAL 24.1 KD PROTEIN IN LEF4-P33 INTERGENIC REGION
9040	21730	34885	1.52	6.0E-07	BF001897.1	EST_HUMAN	769407.x1 NCL CGAP_C016 Homo sapiens cDNA clone IMAGE:3314149 3' similar to TR-076020 075620
11536	24420	37761	1.3	6.0E-07	BE083506.1	EST_HUMAN	4F5L...
12156	25307		2.26	6.0E-07	AW903222.1	EST_HUMAN	CM4-NN1028-26300-121-R12 NN1028 Homo sapiens cDNA
318	13121		1.94	5.0E-07	AI831863.1	EST_HUMAN	W84470.x1 NCL CGAP_K0411 Homo sapiens cDNA clone IMAGE:2385647 3'
1035	13705		4.25	5.0E-07	AA380690.1	EST_HUMAN	EST106515 Supt cells Homo sapiens cDNA 5' end
3026	15704		0.88	5.0E-07	AI831863.1	EST_HUMAN	W84470.x1 NCL CGAP_K0411 Homo sapiens cDNA clone IMAGE:2385647 3'
6029	15909	31709	0.9	5.0E-07	U06007.1	NT	Mus musculus OG-2 homeodomain protein (OG-2) gene, partial cds
6964	19446	32463	1.89	5.0E-07	AI303981.1	EST_HUMAN	Y06202.x1 NCL CGAP_G11.1 Homo sapiens cDNA clone IMAGE:2107683 3' similar to contains Alu
6964	19446	32464	1.89	5.0E-07	AI303981.1	EST_HUMAN	Y06202.x1 NCL CGAP_G11.1 Homo sapiens cDNA clone IMAGE:2107683 3' similar to contains Alu
7248	19633	33008	17	5.0E-07	AW070885.1	EST_HUMAN	Y06202.x1 NCL CGAP_Br18 Homo sapiens cDNA clone IMAGE:2688352 3' similar to gp-X15341
8173	20967	33969	0.74	5.0E-07	O9WUQ1	SWISSPROT	CYTOKINE C OXIDASE POLYPEPTIDE VIA-LIVER (HUMAN);
8388	21081		0.82	5.0E-07	P06583	SWISSPROT	ADAM-TS1 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN
10265	22813	39123	4.94	5.0E-07	AI808967.1	EST_HUMAN	MOTIFS 1) (ADAMTS-1) (ADAM-TS1)
						SWISSPROT	8-ANTIGEN PROTEIN PRECURSOR
						EST_HUMAN	CM4-BT178-220498-014 BT178 Homo sapiens cDNA

Page 203 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10560	23256	36483	1.28	5.0E-07	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
11900	24101	37473	4.04	5.0E-07	P11087	SWISSPROT	COLLAGEN ALPHA 1(I) CHAIN PRECURSOR
11574	24173		2.52	5.0E-07	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
12501	25211		3.48	5.0E-07	AW82837.1	EST_HUMAN	QV0-CT0383-210400-204-b12 CT0383 Homo sapiens cDNA
3981	10729	28394	2.02	4.0E-07	AW009802.1	EST_HUMAN	w81405.x1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:3504807 3'
7078	10769		0.83	4.0E-07	AJ272266.1	NT	Homo sapiens SP22 gene for secreted phosphoprotein 24 precursor, exons 1-8
7187	10854	32923	1.74	4.0E-07	Q022V6	SWISSPROT	HISTONE DEACETYLASE 5 (HD5) (HISTONE DEACETYLASE MHDA1)
7187	10854	32924	1.74	4.0E-07	Q022V6	SWISSPROT	HISTONE DEACETYLASE 5 (HD5) (HISTONE DEACETYLASE MHDA1)
7823	20518	33844	0.6	4.0E-07	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21G007
8049	21840	34787	5.41	4.0E-07	AW419134.1	EST_HUMAN	xy46g11.x1 NCI CGAP_JUG4.1 Homo sapiens cDNA clone IMAGE:2806548 3'
10027	22875	30980	0.47	4.0E-07	BE901975.1	EST_HUMAN	801676748F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3559851 5'
10027	22875	35991	0.47	4.0E-07	BE901975.1	EST_HUMAN	801676748F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3559851 5'
10223	22871	36084	0.49	4.0E-07	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21G018
10558	23536	36781	3.14	4.0E-07	AI766528.1	EST_HUMAN	w81508.x1 NCI CGAP_K012 Homo sapiens cDNA clone IMAGE:2399703 3'
10558	23536	36782	3.14	4.0E-07	AI766528.1	EST_HUMAN	w81508.x1 NCI CGAP_K012 Homo sapiens cDNA clone IMAGE:2399703 3'
11184	23949		1.86	4.0E-07	BE001628.1	EST_HUMAN	BN1-BN0083-030300-003-e12 BN0083 Homo sapiens cDNA
431	13217	25982	9.84	3.0E-07	U19719.1	NT	Human microfilament-associated glycoprotein (MFAP2) gene, putative promoter region and alternatively spliced untranslated exons
560	13350	26978	2.12	3.0E-07	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
1953	14101	28778	2.87	3.0E-07	M69149.1	NT	Human polymorphic microsatellite DNA
1622	14369		2.03	3.0E-07	M64857.1	NT	Human Igk subgroup I germline gene, exons 1 and 2, V-region 018 allele
2039	14773		1.42	3.0E-07	AI4526783.1	EST_HUMAN	w88309.a1 NCI CGAP_Ov2 Homo sapiens cDNA clone IMAGE:360825 similar to contains Alu repetitive element contains L1.10 L1 repetitive element
2286	15011	27749	1.83	3.0E-07	M69149.1	NT	Human polymorphic microsatellite DNA
2472	15100	27030	7.61	3.0E-07	BE008077.1	EST_HUMAN	MR0-BN0115-020300-001-F11 BN0115 Homo sapiens cDNA
2472	15180	27881	7.61	3.0E-07	BE008077.1	EST_HUMAN	MR0-BN0115-020300-001-F11 BN0115 Homo sapiens cDNA
3031	15797	28443	1.16	3.0E-07	T84704.1	EST_HUMAN	YF05012.1 Scores fetal liver spleen TNLFS Homo sapiens cDNA clone IMAGE:111686 6'
3157	15920	28596	1.45	3.0E-07	P38739	SWISSPROT	HYPOPHYSICAL 63.8 KD PROTEIN IN GUT1-RM1 INTERGENIC REGION PRECURSOR
4678	17412	30047	7.42	3.0E-07	AV650201.1	EST_HUMAN	AV650201 GUC Homo sapiens cDNA clone GLOC001 3'
4711	17443	30076	0.96	3.0E-07	AI781236.1	EST_HUMAN	w88612.x1 Scores_NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:2347067 3'
5004	17727	30330	1.3	3.0E-07	T57850.1	EST_HUMAN	yc14109.a1 Stratiotes lung (#837210) Homo sapiens cDNA clone IMAGE:80705 3' similar to similar to
5004	17727	30331	1.3	3.0E-07	T57850.1	EST_HUMAN	gc-M22882 ARACHIDONATE 12-LIPOXYGENASE (HUMAN)
							yc14109.a1 Stratiotes lung (#837210) Homo sapiens cDNA clone IMAGE:80705 3' similar to similar to
							gc-M22882 ARACHIDONATE 12-LIPOXYGENASE (HUMAN)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5980	18377	31280	12.43	3.0E-07	O88907	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4)
5983	18369	31610	0.83	3.0E-07	O42280	SWISSPROT	(PEPTIDYLARGININE DEIMINASE TYPE ALPHA)
6603	18368		5.57	3.0E-07	AA815175.1	EST_HUMAN	WNT-14 PROTEIN PRECURSOR
7409	20088	33170	3.48	3.0E-07	AW767166.1	EST_HUMAN	cd04c10.1 NCL CGAP GC81 Homo sapiens cDNA clone IMAGE:1339890 3'
7581	20231		0.79	3.0E-07	A691065.1	EST_HUMAN	QY1-UM0039-200300-115-g02 UM0039 Homo sapiens cDNA
							hw28f1.1 NCL CGAP Ov38 Homo sapiens cDNA clone IMAGE:2281037 3' similar to contains Alu repetitive element/contains element MSRT1 MSRT1 repetitive element ;
9028	21718	34872	0.85	3.0E-07	P33240	SWISSPROT	CLEAVAGE STIMULATION FACTOR, 64 KD SUBUNIT (CSTF 64 KD SUBUNIT) (CF-1 64 KD SUBUNIT)
9028	21718	34873	0.85	3.0E-07	P33240	SWISSPROT	CLEAVAGE STIMULATION FACTOR, 64 KD SUBUNIT (CSTF 64 KD SUBUNIT) (CF-1 64 KD SUBUNIT)
11484	24085		1.45	3.0E-07	BE439409.1	EST_HUMAN	HTM1-025F1 HTM1 Homo sapiens cDNA
11656	24283		1.75	3.0E-07	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
12781	25043		5.1	3.0E-07	AJ132352.1	NT	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
27	12855	25471	4.15	2.0E-07	AF282088.1	NT	Homo sapiens TRF2-interacting telomeric RAP1 protein (RAP1) mRNA, complete cds
150	12966	25806	9	2.0E-07	L77586.1	NT	Homo sapiens DGeorge syndrome critical region, telomeric and
150	12966	25807	9	2.0E-07	L77586.1	NT	Homo sapiens DGeorge syndrome critical region, telomeric and
177	12969	25929	44.15	2.0E-07	U38849.1	NT	Fugu rubripes beta-cytoplasmic (vesicular) actin gene, complete cds
731	13505	26160	2.45	2.0E-07	AF003530.1	NT	Homo sapiens homeobox protein CDXA (CDXA) gene, complete cds and flanking repeat regions
731	13505	26161	2.45	2.0E-07	AF003530.1	NT	Homo sapiens homeobox protein CDXA (CDXA) gene, complete cds and flanking repeat regions
744	13517		0.82	2.0E-07	P41369	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
							ENDONUCLEASE]
922	13689	26353	3.73	2.0E-07	AA223260.1	EST_HUMAN	z08807.at Streptococcus NT2 neuronal precursor 837230 Homo sapiens cDNA clone IMAGE:850869 3' similar to gbl31880 GLYCOPHORIN A PRECURSOR (HUMAN); contains Alu repetitive element;
923	13690	26364	2.15	2.0E-07	T63042.1	EST_HUMAN	y01504.at Streptococcus lung (8637210) Homo sapiens cDNA clone IMAGE:907890 3' similar to contains L1 repetitive element ;
1140	13695	26356	1.37	2.0E-07	O26768	SWISSPROT	I16 AUTOANTIGEN
1508	14342	27032	2.98	2.0E-07	Q09701	SWISSPROT	HYPOTHETICAL 72.6 KD PROTEIN C2F7.10 IN CHROMOSOME 1
3878	18429	28070	15.93	2.0E-07	AF125348.1	NT	Homo sapiens caveolin 1 (CAV1) gene, exon 3 and partial cds
							xa05h07.x1 Saccharomyces cerevisiae NFI_T_GBC.S1 Homo sapiens cDNA clone IMAGE:2667485 3' similar to WP:C3842.1
5059	17778	30395	0.84	2.0E-07	AW070995.1	EST_HUMAN	CE00923 PROBABLE RABGAP DOMAINS ;

Page 205 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5056	17778	30396	0.84	2.0E-07	AU070995.1	EST_HUMAN	xho5h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567485 3' similar to WP:C3Hf.12.1
5290	18069	30964	1.21	2.0E-07	AW859096.1	EST_HUMAN	CE00023 PROBABLE RABGAP DOMAINS;
6456	25000	32223	0.81	2.0E-07	AV448988.1	EST_HUMAN	RCS-NN0006-280400-021-g11 NN0006 Homo sapiens cDNA
6566	18330	32337	1.79	2.0E-07	AJ28715.1	EST_HUMAN	UH-HB13-aka-b1-Q.U.a1 NCI CGAP_Sub05 Homo sapiens cDNA clone IMAGE:2734003 3'
7898	20238	33342	0.67	2.0E-07	X95193.1	NT	qg5d4r05.x1 Soares_letdb_NHTT Homo sapiens cDNA clone IMAGE:1839177 3'
8359	21062		4.08	2.0E-07	AV726390.1	EST_HUMAN	H_sapiens brain2 gene exon 9
8565	21287	34428	0.97	2.0E-07	AJ035193.1	EST_HUMAN	AV726390 HTC Homo sapiens cDNA clone HTCAEG02 5'
9661	22313		2.6	2.0E-07	AL163303.2	NT	Zk27g08.s1 Soares_pregnant uterus_NHRPU Homo sapiens cDNA clone IMAGE:471808 3'
10167	22816	36033	5.41	2.0E-07	AW892507.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
10366	23032	36245	0.9	2.0E-07	P00751	SWISSPROT	CMA-NN0003-280300-124-a06 NN0003 Homo sapiens cDNA
10366	23032	36246	0.9	2.0E-07	P00751	SWISSPROT	COMPLEMENT FACTOR B PRECURSOR (C3/G5 CONVERTASE) (PROPERDIN FACTOR B)
11871	24945		2.44	2.0E-07	BE153717.1	EST_HUMAN	(GLYCINE-RICH BETA GLYOXYLPROTEIN) (GBG) (PBF2)
11953	25212		2.39	2.0E-07	AJ732482.1	EST_HUMAN	COMPLEMENT FACTOR B PRECURSOR (C3/G5 CONVERTASE) (PROPERDIN FACTOR B)
10980	19338		1.97	1.0E-07	AL163282.2	NT	PMO-HT0339-280100-008-H07 HT0339 Homo sapiens cDNA
2391	15103	27842	1.11	1.0E-07	P10263	SWISSPROT	zr5h11.y45 Stratiocytus lung carcinoma G37218 Homo sapiens cDNA clone IMAGE:566029 3' similar to contains THR.L2 THR repetitive element;
2830	14256	29945	2.51	1.0E-07	P00266	SWISSPROT	Homo sapiens chromosome 21 segment HS21C082
3727	19338		1.29	1.0E-07	AL163282.2	NT	RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1)
4290	17001	29831	2.78	1.0E-07	AV718682.1	EST_HUMAN	GLYOXYLPROTEIN GPV
4290	17001	29832	2.78	1.0E-07	AV718682.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C082
4680	17424		0.83	1.0E-07	O75920	SWISSPROT	AV718682 GLC Homo sapiens cDNA clone GLGFNF04 5'
5072	17791	30406	0.93	1.0E-07	AA018181.1	EST_HUMAN	AV718682 GLC Homo sapiens cDNA clone GLCFNF04 5'
6410	19178	32177	0.87	1.0E-07	U62871.2	NT	ZING FINGER PROTEIN 189
6768	19512	32537	5.24	1.0E-07	BE047871.1	EST_HUMAN	Ses5g02.g1 Soares_reflra N2b4HR Homo sapiens cDNA clone IMAGE:363026 5'
6768	19512	32538	5.24	1.0E-07	BE047871.1	EST_HUMAN	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltactin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and Lb
7362	20071	33150	9.06	1.0E-07	N505061.1	EST_HUMAN	ZK3406.y1 NCI_CGAP_Bms2 Homo sapiens cDNA clone IMAGE:2281339 5'
7548	20218	33320	0.67	1.0E-07	BF375909.1	EST_HUMAN	ZK3406.y1 NCI_CGAP_Bms2 Homo sapiens cDNA clone IMAGE:2281339 5'
7648	20218	33321	0.67	1.0E-07	BF375909.1	EST_HUMAN	tay3406.y1 Soares_fetal liver spleen_INFLS Homo sapiens cDNA clone IMAGE:2281339 6'
7577	20248	33351	1.31	1.0E-07	AI163281.2	NT	PM4-TN0024-030800-002-b03 TN0024 Homo sapiens cDNA
7577	20248	33351	1.31	1.0E-07	AI163281.2	NT	PM4-TN0024-030800-002-b03 TN0024 Homo sapiens cDNA
7577	20248	33351	1.31	1.0E-07	AI163281.2	NT	PM4-TN0024-030800-002-b03 TN0024 Homo sapiens cDNA
7577	20248	33351	1.31	1.0E-07	AI163281.2	NT	Homo sapiens chromosome 21 segment HS21C081

Page 206 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7721	20365	33489	0.64	1.0E-07	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
8114	20808	33941	2.73	1.0E-07	P97435	SWISSPROT	ENTEROPEPTIDASE (ENTEROKINASE)
8114	20808	33942	2.73	1.0E-07	P97435	SWISSPROT	ENTEROPEPTIDASE (ENTEROKINASE)
8653	21544	34691	2.78	1.0E-07	AA693576.1	EST_HUMAN	z51et0.0.s1 Score, full_lhr, spben .INFLS_S1 Homo sapiens cDNA clone IMAGE:434348 3'
8170	21840	35005	0.97	1.0E-07	P57110	SWISSPROT	ADAM-TS 8 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 8) (ADAMTS-8) (ADAM-TS8) (METH-2)
9517	22170	35353	0.46	1.0E-07	BE327843.1	EST_HUMAN	h228408.x1 NCL CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171419 3' similar to contains MER18.13
9836	22487	35639	2.77	1.0E-07	BF874524.1	EST_HUMAN	MER18 repetitive element
9844	22495	35690	1.21	1.0E-07	AA388311.1	EST_HUMAN	80213774F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4274428 5'
10362	23009		1.28	1.0E-07	AL163282.2	NT	EST185054 Brain IV Homo sapiens cDNA
12212	25188	30810	3.83	1.0E-07	BE048770.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C082
12514	24984		1.87	1.0E-07	X61755.1	NT	hfr35c11.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132212 3' similar to TRC065722 O95722
7181	19897	32940	0.84	9.0E-08	AUS30621	EST_HUMAN	Human lambda-immunoglobulin constant region complex (germline)
9787	22439	35645	1.88	9.0E-08	AV734816.1	EST_HUMAN	h211008.x1 Scorea_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2090195 3'
11136	23804	37082	1.71	9.0E-08	A1861082.1	EST_HUMAN	AV734819 cDNA Homo sapiens cDNA clone cdABFB06 5'
11688	24283	37597	2.8	9.0E-08	AL163301.2	NT	h230407.x1 NCL CGAP_Gee4 Homo sapiens cDNA clone IMAGE:2446832 3' similar to contains OFR.12
12168	24948		4.44	9.0E-08	AJ251973.1	NT	OFR repetitive element
963	15546		3.7	8.0E-08	A1911392.1	EST_HUMAN	Homo sapiens partial steirin-1 gene
1028	13768		0.72	8.0E-08	BE706480.1	EST_HUMAN	h2116005.x1 Scorea_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2328273 3'
3532	16286		1.53	8.0E-08	BE795469.1	EST_HUMAN	601590133F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943876 5'
8638	21330	34474	3.05	8.0E-08	A1752367.1	EST_HUMAN	601590133F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943876 5'
8638	21330	34475	3.05	8.0E-08	A1752367.1	EST_HUMAN	cn15402.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn15402 random
9527	22130	35394	2.83	8.0E-08	AW970893.1	EST_HUMAN	cn15402.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn15402 random
10461	23107	36338	0.47	8.0E-08	AF111167.2	NT	EST382778 IMAGE resequences, MAGK Homo sapiens cDNA
11211	23874		2.1	8.0E-08	AF253417.1	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
78	12904	25542	2.66	7.0E-08	Q02357	SWISSPROT	Homo sapiens microsome epoxide hydrolase (EPHX1) gene, complete cds
1940	14088	26764	13.91	7.0E-08	X04609.1	NT	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)
3563	16318	28965	1.15	7.0E-08	P18305	SWISSPROT	Rat mRNA for ribosomal protein L31
							DYNEIN HEAVY CHAIN (DYHC)

Page 207 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3593	16318	28666	1.15	7.0E-08	P15305	SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)
10716	23405		1.67	7.0E-08	A1535743.1	EST_HUMAN	cong3.P11.A5 contig Homo sapiens cDNA 3'
11672	24267	37589	5.17	7.0E-08	U24070.1	NT	Rattus norvegicus Munc13-1 mRNA, complete cds
12619	16318	28665	2.98	7.0E-08	P15305	SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)
12619	16318	28666	2.98	7.0E-08	P15305	SWISSPROT	DYNEIN HEAVY CHAIN (DYHC)
12690	24675		1.99	7.0E-08	AL131016.1	NT	Homo sapiens SCL gene locus
798	13570	28230	2.88	6.0E-08	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
798	13570	28231	2.88	6.0E-08	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
2363	15085	27824	2.97	6.0E-08	BE14398.1	EST_HUMAN	MR0-HT0168-19116-004-g09 HT0168 Homo sapiens cDNA
3058	15824	28489	0.81	6.0E-08	7682473	NT	Homo sapiens KIAA1074 protein (KIAA1074), mRNA
4222	16963	29588	0.98	6.0E-08	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
7851	20546		0.90	6.0E-08	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
9227	21808		0.96	6.0E-08	AA827075.1	EST_HUMAN	ab5605.s1 NCL CGAP_OC81 Homo sapiens cDNA clone IMAGE:1335368 3' similar to contains MER12.b3 MER12 repetitive element;
11391	23897	37299	2.24	6.0E-08	P11389	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
11620	24120		1.33	6.0E-08	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C068
83	12009	25547	3.72	5.0E-08	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2229	14957	27897	1.82	5.0E-08	AA468851.1	EST_HUMAN	rh03809.s1 NCL CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943163 similar to contains Alu repetitive element;
11914	24477		8.36	5.0E-08	P06881	SWISSPROT	COMPLEMENT C2 PRECURSOR (C3/C5 CONVERTASE)
12040	24590	31095	2.64	5.0E-08	AW851878.1	EST_HUMAN	QVQ-CT0225-131092-034-e12 CT0225 Homo sapiens cDNA
1754	14486	27195	0.97	4.0E-08	P25723	SWISSPROT	DORSAL-VENTRAL PATTERNING TOLLOID PROTEIN PRECURSOR
1754	14496	27196	0.97	4.0E-08	P25723	SWISSPROT	DORSAL-VENTRAL PATTERNING TOLLOID PROTEIN PRECURSOR
2888	15655		1.09	4.0E-08	AL076581.1	EST_HUMAN	DKFZp434.0428.J1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434.0428 5'
3694	16844	29284	1.04	4.0E-08	U82888.1	NT	Homo sapiens shox gene, alternatively spliced products, complete cds
6311	19082	32067	1.08	4.0E-08	P52624	SWISSPROT	URIDINE PHOSPHORYLASE (UDRPASE)
8697	21389	34533	0.63	4.0E-08	O15363	SWISSPROT	TRANSMEMBRANE PROTEASE, SERINE 2
9037	21727	34881	1.05	4.0E-08	L42571.1	NT	Citellus griseus fibronectin transcription factor (UBF2) mRNA, complete cds
8545	22198		0.71	4.0E-08	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
10226	22876		0.88	4.0E-08	A1016342.1	EST_HUMAN	af78412.s1 Soares, fetal, N221F8, 9w Homo sapiens cDNA clone IMAGE:1622903 3'
10284	22932	36147	3.87	4.0E-08	A1050027.1	EST_HUMAN	an22410.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:168411 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11009	23081	39639	1.71	4.0E-08	AA33927.1	EST_HUMAN	276808.1 Scores: best_NHT Homo sapiens cDNA clone IMAGE:728247 5' similar to TR:G505579 G505579 NAUCA-KEXCHANGER ;
11009	23081	39640	1.71	4.0E-08	AA33927.1	EST_HUMAN	276808.1 Scores: best_NHT Homo sapiens cDNA clone IMAGE:728247 5' similar to TR:G505579 G505579 NAUCA-KEXCHANGER ;
11031	23702	39699	4.02	4.0E-08	BF692463.1	EST_HUMAN	502248024F1 NIH_MGC 82 Homo sapiens cDNA clone IMAGE:4333300 5'
11031	23702	39699	4.02	4.0E-08	BF692463.1	EST_HUMAN	502248024F1 NIH_MGC 82 Homo sapiens cDNA clone IMAGE:4333300 5'
11919	26334		4.31	4.0E-08	W70199.1	EST_HUMAN	2405403.1 Scores: fetal_liver_NHT-H19W Homo sapiens cDNA clone IMAGE:345550 5' similar to contains L1.t1 repetitive element ;
12549	24887		2.18	4.0E-08	AI343363.1	EST_HUMAN	165541.1 NCL CGAP_C018 Homo sapiens cDNA clone IMAGE:2062078 3' similar to contains MER18.13 MER18 MER19 repetitive element ;
5523	18321	31222	2.22	3.0E-08	BE018348.1	EST_HUMAN	bb78a10.1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048570 5' similar to TR:Q62158 Q62158 SYNTAXIN 17 ;
9879	17955	30552	4.24	3.0E-08	AI792737.1	EST_HUMAN	9a76f11.5 NCL CGAP_P268 Homo sapiens cDNA clone IMAGE:1944045 5'
7469	20116	33205	1.60	3.0E-08	AL163246.2	NT	Homo sapiens chromosome 21 segment H321C046
7649	20313		3.86	3.0E-08	AI439352.1	EST_HUMAN	9a83h08.1 Scores: NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126273 3' similar to TR:Q19357 Q19357 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE ;
9798	22449		0.52	3.0E-08	AF055095.1	NT	Homo sapiens MHC class 1 region
10948	23626	36877	1.32	3.0E-08	AI218001.1	EST_HUMAN	9i21a04.x1 Scores: NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1846284 3'
11596	24165	37477	61.68	3.0E-08	R66278.1	EST_HUMAN	9i21a10.x1 Scores: breast 3NH-Hist Homo sapiens cDNA clone IMAGE:187195 3' similar to gb:M54079 TAT BINDING PROTEIN-1 (HUMAN);
11596	24165	37478	61.68	3.0E-08	R66278.1	EST_HUMAN	9i21a10.x1 Scores: breast 3NH-Hist Homo sapiens cDNA clone IMAGE:187195 3' similar to gb:M54079 TAT BINDING PROTEIN-1 (HUMAN);
11888	24459		2.27	3.0E-08	R18420.1	EST_HUMAN	9j0204.1 Scores: infant brain 1NIB Homo sapiens cDNA clone IMAGE:30948 5' similar to contains ALU repetitive element ;
201	13014		9.03	2.0E-08	AW302006.1	EST_HUMAN	9a87698.x1 NCL CGAP_Luc28 Homo sapiens cDNA clone IMAGE:2767139 3'
221	13033		9.14	2.0E-08	AA425996.1	EST_HUMAN	zw4807.1 Scores: total_fetus_NH2HF8_9W Homo sapiens cDNA clone IMAGE:773317 5' similar to contains Alu repetitive element; contains element MER15 repetitive element ;
484	13269	25905	1.01	2.0E-08	AF168349.1	NT	Callus gallus Dact2 protein (Dact2) mRNA, complete cds
645	13424	28062	13.62	2.0E-08	AW886438.1	EST_HUMAN	MFR0-OT0080-240200-001-g08 OT0080 Homo sapiens cDNA
645	13424	28063	13.62	2.0E-08	AW886438.1	EST_HUMAN	MFR0-OT0080-240200-001-g08 OT0080 Homo sapiens cDNA
969	13735		24.4	2.0E-08	BE280477.1	EST_HUMAN	901156321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138983 5'
1320	14069	26743	2.38	2.0E-08	AL163247.2	NT	Homo sapiens chromosome 21 segment H321C047
1734	14476		12.18	2.0E-08	BE734971.1	EST_HUMAN	901570463F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3846186 5'

Page 209 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1947	14585		4.11	2.0E-08	AW270271.1	EST_HUMAN	3p43H1.1 NCI CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743149 3'
2945	15260		1.71	2.0E-08	K00216.1	NT	Sheep Hla-IRNA-GUG
3202	15095	28618	7.94	2.0E-08	O42280	SWISSPROT	WNT-14 PROTEIN PRECURSOR
3202	15095	28619	7.94	2.0E-08	O42280	SWISSPROT	WNT-14 PROTEIN PRECURSOR
3940	16561		1.76	2.0E-08	AW813920.1	EST_HUMAN	RC3-ST0197-161096-012-b03 ST0197 Homo sapiens cDNA
							3p28c07.1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814380 5' similar to contains L1.12 L1
4373	17111		2.48	2.0E-08	AA459040.1	EST_HUMAN	repetitive element;
4903	17630			2.0E-08	AW572881.1	EST_HUMAN	he17f08.x2 NCI CGAP_OML1 Homo sapiens cDNA clone IMAGE:2918327 3' similar to contains Alu
5549	18346	31255	2.36	2.0E-08	AA813204.1	EST_HUMAN	repetitive element;
			1.19	2.0E-08	AA813204.1	EST_HUMAN	repetitive element;
5742	18934	31457	0.93	2.0E-08	AW089924.1	EST_HUMAN	3p32c04.x1 NCI CGAP_Oy23 Homo sapiens cDNA clone (377189 3'
7903	20598	33728	0.92	2.0E-08	P10272	SWISSPROT	MER18 MER18 repetitive element;
8009	20704	33832	1.35	2.0E-08	AA490121.1	EST_HUMAN	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]
8993	21673		0.9	2.0E-08	AU139978.1	EST_HUMAN	3p28c08.s1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839674 3'
							AU139978 PLACE1 Homo sapiens cDNA clone PLACE1011719 5'
10416	23062	36281	0.79	2.0E-08	N78007.1	EST_HUMAN	y7202.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:248283 5' similar to contains
							LTR1.b3 LTR1 repetitive element;
10416	23062	36282	0.79	2.0E-08	N78007.1	EST_HUMAN	y7202.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:248283 5' similar to contains
12184	24658		1.54	2.0E-08	AL163284.2	NT	LTR1.b3 LTR1 repetitive element;
1469	15571	28931	1.16	1.0E-08	P31782	SWISSPROT	Homo sapiens chromosome 21 segment HS21C084
1768	14510	27211	1.45	1.0E-08	AF125348.1	NT	POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
2044	14777		2.31	1.0E-08	BE411959.1	EST_HUMAN	Homo sapiens caveolin 1 (CAV1) gene, exon 3 and partial cds
5512	16510	31211	4.85	1.0E-08	AJ010770.1	NT	P42-HT0130-150999-001-f12 HT0130 Homo sapiens cDNA
7968	20332	33443	1.26	1.0E-08	P19474	SWISSPROT	Homo sapiens hyperin gene, exons 1-50
7934	20629	33756	0.92	1.0E-08	AL163302.2	NT	52 KD RO PROTEIN (SIOGREN SYNDROME TYPE A ANTIGEN (SS-A)) (RO(SS-A))
							Homo sapiens chromosome 21 segment HS21G102
8028	20723	33855	0.84	1.0E-08	AF224696.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
8028	20723	33856	0.84	1.0E-08	AF224696.1	NT	(UBE2D3) genes, complete cds
8445	21137	34276	1.94	1.0E-08	AJ015304.1	EST_HUMAN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
9104	21792		0.45	1.0E-08	P08563	SWISSPROT	(UBE2D3) genes, complete cds
9108	21793	34656	0.78	1.0E-08	BE072572.1	EST_HUMAN	S-ANTIGEN PROTEIN PRECURSOR
							P42-BT0546-210100-004-d02 BT0546 Homo sapiens cDNA

Page 210 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8886	22516	35712	1.2	1.0E-06	F79110	SWISSPROT	TRICARBOXYLATE TRANSPORT PROTEIN PRECURSOR (CITRATE TRANSPORT PROTEIN) (GTP)
10453	23056	36330	0.77	1.0E-06	P80063	SWISSPROT	(TRICARBOXYLATE CARRIER PROTEIN)
11285	23946	37241	4.14	1.0E-09	AFO4083.1	NT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
12282	24715	29583	2.82	1.0E-06	X51785.1	NT	Homo sapiens major histocompatibility locus class III region
4218	16959	29583	4.65	9.0E-09	AL163279.2	NT	Human lamella-immunoglobulin constant region complex (germline)
4218	16959	20684	4.65	9.0E-09	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
9882	22610		0.52	9.0E-09	T97950.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C079
6390	19159		0.82	8.0E-09	A270615.1	EST_HUMAN	ye88a12.1 s1 Scores fetal liver spleen 1NRL5 Homo sapiens cDNA clone IMAGE:121918 3'
7104	18851	32920	7.86	8.0E-09	A183500.1	EST_HUMAN	ye88a12.1 s1 NCL CGAP_Gas4 Homo sapiens cDNA clone IMAGE:197894 3' similar to contains L1,12 L1
7899	20504	33728	2.65	8.0E-09	AW000159.1	EST_HUMAN	qp42607.1 Scores_fetal_hairt_NbHH19W Homo sapiens cDNA clone IMAGE:1732164 3' similar to contains MSR1.1 MSR1 repetitive element;
8887	21578		2.65	8.0E-09	A438892.1	EST_HUMAN	CN0-NN1004-100300-273-008 NN1004 Homo sapiens cDNA
3593	16346		1.73	7.0E-09	D86842.1	NT	qp74608.s1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1682575 3'
7802	20497		0.61	7.0E-09	BF108755.1	EST_HUMAN	Homo sapiens DNA for 3-hydroxy-CoA thiolase beta-subunit of mitochondrial trifunctional protein, exon 2, 3 contains MER29 b2 MER29 repetitive element;
7946	20641		0.82	7.0E-09	AA256200.1	EST_HUMAN	zr80003.1 Scores_NHMP1_S1 Homo sapiens cDNA clone IMAGE:081992 5' similar to contains L1,12 L1
9158	21829	34683	2.91	7.0E-09	L06709.1	NT	repetitive element;
10083	22731	35946	1.42	7.0E-09	BE264850.1	EST_HUMAN	Human lysosomal membrane glycoprotein-2 (LAMP2) gene, 5' end and flanking region
10244	22892		0.5	7.0E-09	AA058026.1	EST_HUMAN	801111173F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3351834 5'
10571	23266		1.49	7.0E-09	T97950.1	EST_HUMAN	zr88a07.s1 Scores retina N2b-4HR Homo sapiens cDNA clone IMAGE:381156 3' similar to contains L1,12 L1
2149	14879		0.99	6.0E-09	AL040439.1	EST_HUMAN	ye88a12.1 s1 Scores fetal liver spleen 1NRL5 Homo sapiens cDNA clone IMAGE:121918 3'
4622	17860	30283	3.12	6.0E-09	BE106421.1	EST_HUMAN	DKF7ZP43G05814.1 434 (synonym: hies3) Homo sapiens cDNA clone DKF7ZP43G05814 5'
5296	18101	30760	11.59	6.0E-09	AW185784.1	EST_HUMAN	PM1-HT0827-160200-001-H05 HT0827 Homo sapiens cDNA
8476	21167	34311	0.93	6.0E-09	BE161663.1	EST_HUMAN	xn55h08.1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701311 3'
9074	21769	34925	1.86	6.0E-09		NT	MR3-HT0448-280300-201-H12 HT0448 Homo sapiens cDNA
10176	22824		3.76	6.0E-09	AF200923.2	NT	Homo sapiens fibroblast growth factor receptor 3 (echinodermata, thymoporphin dwarfism) (FGFR3) mRNA
10652	23324	36561	1.44	6.0E-09	BF108755.1	EST_HUMAN	Homo sapiens tissue-specific kinase substrate (TSHS) gene, complete cds
							745e10.1 Scores_NSIF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3524443 3' similar to contains MER29 b2 MER29 repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11788	24388	37722	1.37	6.0E-09	CO1803.1	EST_HUMAN	HUMG30033702 Human adult (K. Okubo) Homo sapiens cDNA
1394	14141	26818	3.27	5.0E-09	BE149264.1	EST_HUMAN	RG2-H102523-120200-014-110 HT0252 Homo sapiens cDNA
1845	14583	27298	1.06	5.0E-09	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
6318	19087	32071	1.73	5.0E-09	AA369464.1	EST_HUMAN	EST68748 Fetal lung II Homo sapiens cDNA 5' end
9748	17917	30581	0.78	5.0E-09	U60059.1	NT	Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRV1, TRV2, TRV3, TCRBV27S1P, TCRBV28S1A2N1T, TCRBV6S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV6S2A2PT, TCRBV7S2A1N4T,
8484	21178	34321	0.48	5.0E-09	P37071	SWISSPROT	TCRBV13S913S
9895	22843	35855	2.22	5.0E-09	AW799667.1	EST_HUMAN	PM2-UM0053-240300-005-08 UM0053 Homo sapiens cDNA
908	13292		2.12	4.0E-09	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
944	13710		2.5	4.0E-09	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1463	14200	26884	2.52	4.0E-09	9558718	NT	Homo sapiens hypodermal protein (AF038169), mRNA
2018	14751	27478	2.31	4.0E-09	AF175325.1	NT	Homo sapiens autophagic initiation factor 4A1 (EIF4A1) gene, partial cds
2018	14751	27480	2.31	4.0E-09	AF175325.1	NT	Homo sapiens autophagic initiation factor 4A1 (EIF4A1) gene, partial cds
2430	15161	27885	0.07	4.0E-09	AA350878.1	EST_HUMAN	EST768385 Infant brain Homo sapiens cDNA 5' end similar to similar to heat shock protein, 90 kDa
7740	20442	33685	0.59	4.0E-09	AA485747.1	EST_HUMAN	2A0420811 Source: NIH/MPU S1 Homo sapiens cDNA clone IMAGE:768298 5'
8420	21113	34250	0.62	4.0E-09	TG4942.1	EST_HUMAN	Y411407.1 Source: fetal liver spleen TNFHS Homo sapiens cDNA clone IMAGE:66804 3'
10778	23482	36704	2.08	4.0E-09	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C008
11011	23683	36543	1.47	4.0E-09	AI889401.1	EST_HUMAN	vm84f10x1 NCI CGAP U12 Homo sapiens cDNA clone IMAGE:2443827 3'
11061	23731		1.53	4.0E-09	AA195142.1	EST_HUMAN	234412121 Source: NIH/MPU S1 Homo sapiens cDNA clone IMAGE:665278 5' similar to gb:L07807 DYNAMIN-1 (HUMAN)
2851	19073	27810	4.77	3.0E-09	BE222238.1	EST_HUMAN	hu09e09.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.13
2557	15271	28008	1.2	3.0E-09	BE222236.1	EST_HUMAN	MER18 repetitive element;
2856	16398	28104	1.13	3.0E-09	P23249	SWISSPROT	MER18 repetitive element;
3323	16083	28733	1.12	3.0E-09	BE222239.1	EST_HUMAN	PROTEIN MOV-10
3371	16130		1.08	3.0E-09	AA442272.1	EST_HUMAN	hu09e09.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.13
4078	16820		0.7	3.0E-09	X16874.1	NT	MER18 repetitive element;
4392	17129	29761	3.42	3.0E-09	AF175325.1	NT	H.sapiens PADPRP-1 gene for NAD(+) ADP-ribosyltransferase
4478	17211	28836	1.66	3.0E-09	Q9Y3R6	SWISSPROT	Homo sapiens eukaryotic initiation factor 4A1 (EIF4A1) gene, partial cds
							258.1 KDA PROTEIN C21ORF5 (KIA00633)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7800	20465	33617	1.19	3.0E-09	BE465780.1	EST_HUMAN	h60402.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3194090 3' similar to TRO55091
10147	22765	36009	1.7	3.0E-09	AL163247.2	NT	O65091 IMPACT PROTEIN ; Homo sapiens chromosome 21 segment HS21C047
10945	23624	36873	4.8	3.0E-09	BF108943.1	EST_HUMAN	717208.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3527030 3'
10945	23624	36874	4.8	3.0E-09	BF108943.1	EST_HUMAN	717208.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3527030 3'
794	13596	36874	2.43	2.0E-09	X16874.1	NT	H.sapiens PADPRF-1 gene for NAD(+) ADP-riboseyltransferase
1236	13984	28653	7.89	2.0E-09	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1655	14401	27787	7.46	2.0E-09	AL163284.2	EST_HUMAN	DKFZp761B1710.1 761 (lyonism: hem2) Homo sapiens cDNA clone DKFZp761B1710 5'
2326	15051	27787	1.1	2.0E-09	O87385	SWISSPROT	258.1 KDA PROTEIN C21ORF5 (KJAA0833)
3976	16868	28306	3.01	2.0E-09	O80241	SWISSPROT	BRAIN-SPECIFIC ANGIOGENESIS INHIBITOR 2 PRECURSOR
5076	17795	30411	0.85	2.0E-09	M23191.1	NT	Human transposon-like element mRNA
5633	18429	31341	0.55	2.0E-09	AD04062.1	EST_HUMAN	d47609.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1619897 3'
6058	18838	31341	0.57	2.0E-09	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
6682	19589		0.53	2.0E-09	AA357407.1	EST_HUMAN	EST68142 Kidney K1 Homo sapiens cDNA 5' end similar to EST containing L1 repeat
7351	20032	33110	8.4	2.0E-09	AA461430.1	EST_HUMAN	z63106.t1 Soares total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:796187 5' similar to contains Alu repetitive element;
7423	20100	33188	0.88	2.0E-09	W28834.1	EST_HUMAN	52d11 Human telom cDNA randomly primed sublibrary Homo sapiens cDNA
7717	20381	33494	0.82	2.0E-09	AW802126.1	EST_HUMAN	MR1-CT0352-240200-105-506 CT0352 Homo sapiens cDNA
8812	21304	34447	1.78	2.0E-09	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
11233	23598	37163	1.82	2.0E-09	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
12428	13596		22.07	2.0E-09	X16874.1	NT	H.sapiens PADPRF-1 gene for NAD(+) ADP-riboseyltransferase
12465	25403		2.41	2.0E-09	AA228070.1	EST_HUMAN	nc11402.t1 NCI_CGAP_Pt1 Homo sapiens cDNA clone IMAGE:1007810 similar to contains Alu repetitive element;
12634	24934		1.75	2.0E-09	UB2668.1	NT	Homo sapiens shox gene, alternatively spliced products, complete cds
974	13739		0.72	1.0E-09	W78182.1	EST_HUMAN	z678403.s1 Soares fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:346853 3' similar to gbL02832 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN);
1087	13945	28503	2.01	1.0E-09	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
1087	13945	28504	2.01	1.0E-09	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
1630	14376		1.17	1.0E-09	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2892	15959	28304	1.59	1.0E-09	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
2926	15962	28336	3.25	1.0E-09	M28698.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
2926	15962	28337	3.25	1.0E-09	M28698.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3034	15900	28446	0.7	1.0E-09	BE635440.1	EST_HUMAN	901058602F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445177 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4744	17476		6.4	1.0E-08	AAT719297.1	EST_HUMAN	zh5503.s1 Source_pituit_gland_N3HFG Homo sapiens cDNA clone IMAGE:414029 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;
5418	18215	30523	0.86	1.0E-09	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5740	18632	31746	1.90	1.0E-09	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
6053	18633	31795	3.13	1.0E-09	P20664	SWISSPROT	CIRCUMSPORZOITE PROTEIN PRECURSOR (CS)
8298	20883	34124	0.85	1.0E-08	A088474.1	EST_HUMAN	wt530405.x1 Source_NFL_I_GBC.S1 Homo sapiens cDNA clone IMAGE:2330481 3' similar to contains MER25.H1 MER25 repetitive element;
10212	22890		2.92	1.0E-08	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
11788	24389		1.68	1.0E-09	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
12333	25344	30717	2.25	1.0E-09	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
12503	24957		1.35	1.0E-09	T83178.1	EST_HUMAN	ye24605.r1 Stragene lung (9637210) Homo sapiens cDNA clone IMAGE:118888 5'
1286	14038	26707	3.74	9.0E-10	AW861740.1	EST_HUMAN	MRO-SN0040-050500-002-07 SN0040 Homo sapiens cDNA
2838	15606	28256	4.41	9.0E-10	A1870071.1	EST_HUMAN	wt7803.x1 Source_Dickgraeffe_colon_NHCD Homo sapiens cDNA clone IMAGE:2347253 3' similar to SW:RL28_HUMAN P47914 903 RIBOSOMAL PROTEIN L29; contains element PTR5 repetitive element;
6735	18669	32001	4.76	9.0E-10	A162982.1	EST_HUMAN	146509.x1 Source_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2144837 3' similar to TR:000372 000372 PUTATIVE P150.;
142	12957	25569	13.27	8.0E-10	U06030.2	NT	Homo sapiens MCM4 (MCM4) and DNA-PKcs (PRKDC) genes, partial cds
3337	19097	26748	0.86	8.0E-10	BE090748.1	EST_HUMAN	QV1-BT0631-150200-071401 BT0631 Homo sapiens cDNA
4177	18917	26544	3.17	8.0E-10	AA378832.1	EST_HUMAN	EST86664 Small intestine Homo sapiens cDNA 5' end
9685	22515		2.44	8.0E-10	U36306.2	NT	Homo sapiens lens major intrinsic protein (MIP) gene, complete cds
685	13490	26107	9.36	7.0E-10	7708226	NT	Homo sapiens TPA inducible protein (LOC51586), mRNA
885	13480	26108	9.36	7.0E-10	7708226	NT	Homo sapiens TPA inducible protein (LOC51586), mRNA
1918	14395	27056	2.24	7.0E-10	Q13342	SWISSPROT	LYSP-100 PROTEIN (LYMPHOID-RESTRICTED HOMOLOG OF SP100)
2013	14748		3.17	7.0E-10	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
2564	15278		24.23	7.0E-10	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
3085	16850	28491	2.19	7.0E-10	X00956.1	NT	H.sapiens DHFR gene, exon 3
6092	18670	31836	4.18	7.0E-10	AA348220.1	EST_HUMAN	EST151247 Gall bladder II Homo sapiens cDNA 5' end
7318	19099	33078	1.08	7.0E-10	BF352883.1	EST_HUMAN	193-HT0819-110700-209-D12 HT0819 Homo sapiens cDNA
7668	20226		1.48	7.0E-10	P36094	SWISSPROT	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT
7875	20570	33696	1.6	7.0E-10	AF028701.2	NT	Homo sapiens presenilin-1 gene, exons 1 and 2
7875	20570	33697	1.6	7.0E-10	AF028701.2	NT	Homo sapiens presenilin-1 gene, exons 1 and 2
10209	22957	36073	1.87	7.0E-10	U08865.1	NT	Homo sapiens MAD5/MEF2-family transcription factor (MEF2C) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
893	13662	26327	3.5	6.0E-10	AJ400877.1	NT	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
2684	15393	28132	1.21	6.0E-10	AI424405.1	EST_HUMAN	h02807.x1 NCL CGAP_P28 Homo sapiens cDNA clone IMAGE:2085021.3'
4889	17423		2.7	6.0E-10	AW183719.1	EST_HUMAN	RC3-OT0254-031099-012-g12 C170254 Homo sapiens cDNA
6982	21374	34518	1	6.0E-10	P33730	SWISSPROT	E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1) (ELAM-1)
6982	21374	34519	1	6.0E-10	P33730	SWISSPROT	(LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 2) (LECAM2) (CD62E)
6934	22187	35373	0.46	6.0E-10	P98073	SWISSPROT	E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1) (ELAM-1)
11060	24503		2.16	6.0E-10	AW191023.1	EST_HUMAN	ENTEROPEPTIDASE PRECURSOR (ENTEROKINASE)
745	13518		7.27	5.0E-10	AL048804.1	EST_HUMAN	E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1) (ELAM-1)
3468	16224	28878	2.5	5.0E-10	Q01033	SWISSPROT	HYPOPHYSICAL GENE 48 PROTEIN
4631	17659	30299	1	6.0E-10	AF181887.1	NT	Homo sapiens WRN (WRN) gene, complete cds
7222	19607		1.51	5.0E-10	BF105195.1	EST_HUMAN	601822164F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042413.5'
9436	22114	35298	1.86	5.0E-10	P34678	SWISSPROT	HYPOPHYSICAL 67.9 KD PROTEIN ZK688.8 IN CHROMOSOME III
9436	22114	35299	1.86	5.0E-10	P34678	SWISSPROT	HYPOPHYSICAL 67.9 KD PROTEIN ZK688.8 IN CHROMOSOME III
109	12890		1.17	4.0E-10	AI221083.1	EST_HUMAN	q04003.x1 Soares_placenta_820456a_2NH4P8cdW Homo sapiens cDNA clone IMAGE:1756049.3'
567	13348	25976	0.74	4.0E-10	AA516260.1	EST_HUMAN	similar to contains LTR8.b2 LTR8 repetitive element
1989	14725	27446	1.31	4.0E-10	AW594709.1	EST_HUMAN	hg5693.x1 NCL CGAP_C08 Homo sapiens cDNA clone IMAGE:2849844.3' similar to contains Alu repetitive element
2580	15294	28032	3.73	4.0E-10	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
7076	19767	32831	25.71	4.0E-10	AF224068.1	NT	Homo sapiens memosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
10065	22743	35957	0.49	4.0E-10	AW263243.1	EST_HUMAN	U1H-B12-ah-a-07-0-J1.x1 NCL CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727061.3'
10343	22990	36208	0.86	4.0E-10	AI287342.1	EST_HUMAN	seq3111.x1 Stanley_Frontal SN pool 2 Homo sapiens cDNA clone IMAGE:2035683
865	13663	28329	3.55	3.0E-10	N36113.1	EST_HUMAN	y93206.x1 Soares_melanocyte 2NH4M Homo sapiens cDNA clone IMAGE:272963.3' similar to contains L1 L1 repetitive element
1329	14078		4.73	3.0E-10	AY005150.1	NT	Homo sapiens extracellular glycoprotein lactin precursor, gene, complete cds
4468	17234	28864	1.04	3.0E-10	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4498	17234	28865	1.04	3.0E-10	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
5368	18169	30555	1.24	3.0E-10	N60108.1	EST_HUMAN	xt1q08.x1 Soares_multiple_adipocytic_2NH4MSP Homo sapiens cDNA clone IMAGE:282782.3'
6110	18887	31856	2.52	3.0E-10	P20300	SWISSPROT	RHOMBOD PROTEIN (VEINLET PROTEIN)
6298	19832	32007	3.43	3.0E-10	BE302870.1	EST_HUMAN	ba7608.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2808319.5'

Page 215 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7690	20324	33432	1.42	3.0E-10	AF743302.1	EST_HUMAN	AV743302 CB Homo sapiens cDNA clone CBFBGD08 5'
7690	20324	33433	1.42	3.0E-10	AF743302.1	EST_HUMAN	AV743302 CB Homo sapiens cDNA clone CBFBGD08 5'
8629	21821	34463	1.2	3.0E-10	H87208.1	EST_HUMAN	ye74b12.11 Source: retina N254HR Homo sapiens cDNA clone IMAGE:220511 3' similar to contains MER29 repetitive element;
8647	21635	34794	1.56	3.0E-10	AW850731.1	EST_HUMAN	IL3-CT0219-180200-064-B06 CT0219 Homo sapiens cDNA
8647	21638	34795	1.58	3.0E-10	AW850731.1	EST_HUMAN	IL3-CT0219-180200-064-B06 CT0219 Homo sapiens cDNA
9240	21819		0.96	3.0E-10	AF020503.1	NT	Homo sapiens FRA35 common fragile region, diadenosine triphosphatase hydrolase (FHIT) gene, exon 5
10359	23008		2.37	3.0E-10	T65901.1	EST_HUMAN	ye11a12.11 Stratiogene lung (4637210) Homo sapiens cDNA clone IMAGE:80308 5'
10483	23139		1.34	3.0E-10	AA769294.1	EST_HUMAN	nz5603.61 NCL CGAP_G081 Homo sapiens cDNA clone IMAGE:1286908 3'
12884	24907	31003	2.85	3.0E-10	BE179517.1	EST_HUMAN	IL3-HT0618-110500-130-E07 HT0618 Homo sapiens cDNA
34	12882	25470	1.87	2.0E-10	P48988	SWISSPROT	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B)
34	12882	25480	1.87	2.0E-10	P48988	SWISSPROT	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B)
1890	14627		1.96	2.0E-10	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nail) and survival motor neuron protein (smn) genes, complete cds
2065	15751		1.04	2.0E-10	BF675047.1	EST_HUMAN	602136640F1 NH_MGC_83 Homo sapiens cDNA clone IMAGE:4273377 5'
5714	18507		2.04	2.0E-10	Q28640	SWISSPROT	(HPRG)
6156	18633	31900	1.37	2.0E-10	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds, cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds, and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
7279	19963	33339	0.47	2.0E-10	BE77082.1	EST_HUMAN	801586208F1 NH_MGC_7 Homo sapiens cDNA clone IMAGE:3940824 5'
7912	20007	33737	0.48	2.0E-10	P26800	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; RIBONUCLEASE H]
7912	20007	33738	0.48	2.0E-10	P26800	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; RIBONUCLEASE H]
9202	21871		0.90	2.0E-10	BF434596.1	EST_HUMAN	7678008.X1 NCL CGAP_K04111 Homo sapiens cDNA clone IMAGE:3642303 3' similar to contains L1; L3 L1 repetitive element;
11297	23058		1.37	2.0E-10	AJ862153.1	EST_HUMAN	at0012.x1 Source: fetal, Nk2-HF8 Sw Homo sapiens cDNA clone IMAGE:204566 3'
1488	14245		1.87	1.0E-10	AW807767.1	EST_HUMAN	MFR-SND038-280300-001-01 SND038 Homo sapiens cDNA
1602	14348	27037	3.18	1.0E-10	AV652123.1	EST_HUMAN	AV652123 GLC Homo sapiens cDNA clone GLCXA11 3'
2598	15300		3.16	1.0E-10	AW852001.1	EST_HUMAN	QV0-GT0225-161199-056-008 GT0225 Homo sapiens cDNA
3491	15247	28901	0.89	1.0E-10	AW852001.1	EST_HUMAN	QV2-TT00093-161199-013-G10 TT00093 Homo sapiens cDNA
3529	15284		0.7	1.0E-10	AL041085.1	EST_HUMAN	DKFZp434N1317.1 t434 (synonym: hnc43) Homo sapiens cDNA clone DKFZp434N1317 5'
3625	16284		1.03	1.0E-10	AL041085.1	EST_HUMAN	DKFZp434N1317.1 t434 (synonym: hnc43) Homo sapiens cDNA clone DKFZp434N1317 5'
3696	16744		0.19	1.0E-10	AF213854.1	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4108	16851	29477	5.1	1.0E-10	U52111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/calmodulin-dependent protein kinase I (CAMKI1), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
4108	16851	29478	5.1	1.0E-10	U52111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/calmodulin-dependent protein kinase I (CAMKI1), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
4113	16858	29484	1.04	1.0E-10	AB031086.1	NT	Homo sapiens POC3X mRNA for protein containing CXXC domain 1, complete cds
4149	16891		1.84	1.0E-10	M30826.1	NT	Human pregnancy-specific glycoprotein beta-1 (GP1) mRNA, last exon
5085	17804		1.51	1.0E-10	A1797745.1	EST_HUMAN	MER31.H1 MER31 repetitive element;
6720	19035	32578	0.06	1.0E-10	AF003528.1	NT	Homo sapiens X-linked anthrathic ocular dystrophic protein gene (EDA), exon 2 and flanking repeat regions
7376	20055		0.85	1.0E-10	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
7583	20251	33357	0.85	1.0E-10	AU128584.1	EST_HUMAN	AU128584 NT28P2 Homo sapiens cDNA clone NT28P2033751 5'
8138	20832	33966	1.04	1.0E-10	AW408990.1	EST_HUMAN	IB_GA4 Fetal brain library Homo sapiens cDNA
8553	21245		1.07	1.0E-10	AL288340.1	EST_HUMAN	gmo4e10.x1 NCI CGAP_Luis Homo sapiens cDNA clone IMAGE:1880874 3' similar to contains L1.1 L1 repetitive element;
10102	22730		4.01	1.0E-10	AA081898.1	EST_HUMAN	zn23g06.r1 Stratagene neuroepithelium NT2RAM1 937234 Homo sapiens cDNA clone IMAGE:548314 5'
10831	23513	36754	2.85	1.0E-10	AB038280.1	EST_HUMAN	cy66b03.x1 Soares fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1672861 3'
11896	17913		1.71	1.0E-10	X87344.1	NT	H.sapiens DMA, DMb, HLA-Z1, IIP2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING8, 9, 13 and 14 genes
256	13093	25702	1.59	9.0E-11	BE145600.1	EST_HUMAN	IL2-H10203-281099-016-c08 HT0203 Homo sapiens cDNA
2097	14828	27661	6.12	9.0E-11	AL134395.1	EST_HUMAN	DKFZp547D225 .r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp547D225 5'
2097	14828	27662	6.12	9.0E-11	AL134395.1	EST_HUMAN	DKFZp547D225 .r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp547D225 5'
3378	16137	28795	2.45	9.0E-11	AL134395.1	EST_HUMAN	DKFZp547D225 .r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp547D225 5'
3378	16137	28796	2.45	9.0E-11	AL134395.1	EST_HUMAN	DKFZp547D225 .r1 547 (synonym: hfr1) Homo sapiens cDNA clone DKFZp547D225 5'
4465	17201	29927	1.03	9.0E-11	AA775985.1	EST_HUMAN	ae7801.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:970297 3'
5487	18286		3.83	9.0E-11	BE078780.1	EST_HUMAN	RC8-B170627-140200-011-E06 B10627 Homo sapiens cDNA
10054	22702	35919	1.19	9.0E-11	AA324600.1	EST_HUMAN	EST127872 Cerebellum II Homo sapiens cDNA 5' end
10054	22702	35920	1.19	9.0E-11	AA324600.1	EST_HUMAN	EST127872 Cerebellum II Homo sapiens cDNA 5' end
12258	24703	31080	3.9	9.0E-11	C16635.1	EST_HUMAN	C16635 Clontech human aorta polyA+ mRNA (#6572) Homo sapiens cDNA clone GEN-506B08 5'
3114	15079		8.33	8.0E-11	H19871.1	EST_HUMAN	yn5311.a1 Soares adult brain N265B55Y Homo sapiens cDNA clone IMAGE:172173 3' similar to contains L1 repetitive element;

Page 217 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3645	16905	26334	0.7	8.0E-11	AJ778617.1	EST_HUMAN	hm54d09.t1 NC1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161838.3'
4022	16768	26398	4.88	8.0E-11	N23712.1	EST_HUMAN	yw49a06.s1 Wistar-Kyoto Olfactory Epithelium Homo sapiens cDNA clone IMAGE:255288.3'
6674	16338		0.85	8.0E-11	AW169158.1	EST_HUMAN	x46r11.t1 NC1_CGAP_Brn50 Homo sapiens cDNA clone IMAGE:2621081.3' similar to contains MER10.H
1430	14177	26882	1.75	7.0E-11	AA330842.1	EST_HUMAN	MER10 repetitive element;
3852	16802	26240	1.03	7.0E-11	AJ277549.2	NT	EST34392 Embryo, 6 week Homo sapiens cDNA 5' end
8396	21089	34224	2.05	7.0E-11	AF163864.1	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
10129	22777		1.17	7.0E-11	P11399	SWISSPROT	Homo sapiens SINGA isoform (SNGA) gene, complete cds, alternatively spliced
403	13188	25837	7.01	6.0E-11	M55270.1	NT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
403	13188	25838	7.01	6.0E-11	M55270.1	NT	ENDONUCLEASE
8622	16984	32398	0.87	8.0E-11	L44140.1	NT	Human matrix Glu protein (MGP) gene, complete cds
7593	20267	33369	3.85	6.0E-11	P08547	SWISSPROT	Human matrix Glu protein (MGP) gene, complete cds
8292	20956	34065	7.81	6.0E-11	AV727850.1	EST_HUMAN	Homo sapiens chromosome X region from filamin (FLN) gene to glucose-6-phosphate dehydrogenase
8213	21892	36059	0.82	6.0E-11	BE068500.1	EST_HUMAN	(GSPD) gene, complete cds
11	12938	25451	1.49	5.0E-11	AL163283.2	NT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
3359	12938	25451	1.9	5.0E-11	AL163283.2	NT	AV727850 HTC Homo sapiens cDNA clone H1CASC08.5'
4203	16944	26571	1.36	6.0E-11	P48034	SWISSPROT	CNP-0.870281-031100-087-403 BT0281 Homo sapiens cDNA
8423	19191	32187	1.83	6.0E-11	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C083
7430	20107	33194	14.05	5.0E-11	11416798	NT	Homo sapiens chromosome 21 segment HS21C083
1380	14127	33184	1.94	4.0E-11	AA439042.1	EST_HUMAN	ALDEHYDE OXIDASE
2793	15498	28238	7.14	4.0E-11	BE889000.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C013
2899	15735	28385	1.16	4.0E-11	AL163247.2	NT	Homo sapiens proteobacterin beta 3 (PCDH3), mRNA
4576	17311	20439	0.85	4.0E-11	D44898.1	EST_HUMAN	2u01512.r1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:730550.5'
8344	19153	32153	3.2	4.0E-11	P20085	SWISSPROT	801507531F1 NIH MGC-71 Homo sapiens cDNA clone IMAGE:3808285.5'
8003	19641	32888	0.82	4.0E-11	AA442630.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C047
7274	18958		4.6	4.0E-11	AF224098.1	NT	HUMSP107060 Human brain cDNA Homo sapiens cDNA clone 069
9295	21982		1.79	4.0E-11	BE148426.1	EST_HUMAN	PRE-MRNA SPLICING FACTOR RNA HELICASE PRP2
9592	22216	35402	0.9	4.0E-11	AI608753.1	EST_HUMAN	z46r10.t1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:757993.5' similar to TR-G1055250
							G1055250 PHEROMONE RECEPTOR VN4.1
							Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D) genes, complete cds
							RC1-H1D256-210100-013-408 HT0256 Homo sapiens cDNA
							882p12.t1 NC1_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2106890.5' similar to WP-ZK053.1
							CE00395

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12462	24630	31029	1.47	4.0E-11	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
1475	14222	26908	2.8	3.0E-11	6979077	NT	Mus musculus expressed in non-metastatic cells 2, protein (NM23B) (Nm23), mRNA
4243	16984		1.04	3.0E-11	AA309248.1	EST_HUMAN	EST180120 Liver, hepatocellular carcinoma Homo sapiens cDNA 5' end
940	13707	26372	1.87	2.0E-11	AI150502.1	EST_HUMAN	q3604.x1 Soares, testis, NIH Homo sapiens cDNA clone IMAGE:1752102 3' similar to contains MER10.13
1182	13616	26980	3.99	2.0E-11	R24807.1	EST_HUMAN	yg3a12.1 Soares infant brain INIB Homo sapiens cDNA clone IMAGE:35144 5'
1182	13616	26981	3.99	2.0E-11	R24807.1	EST_HUMAN	yg3a12.1 Soares infant brain INIB Homo sapiens cDNA clone IMAGE:35144 5'
1608	14354	27042	4.86	2.0E-11	L17432.1	NT	Gallus gallus rho-globin, beta-H globin, beta-A globin, epsilon-globin, and olfactory receptor-like protein
1608	14354	27043	4.86	2.0E-11	L17432.1	NT	Gallus gallus rho-globin, beta-H globin, beta-A globin, epsilon-globin, and olfactory receptor-like protein
1812	14359	27048	1.21	2.0E-11	AI126371.1	EST_HUMAN	q351c10.x1 Soares, pregnant, uterus, NIH-PU Homo sapiens cDNA clone IMAGE:1713138 3' similar to
3191	15954	28907	7.58	2.0E-11	P10263	SWISSPROT	q3102632 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN)/contains L1.11
3320	16080	28730	1.11	2.0E-11	AI478617.1	EST_HUMAN	L1 repetitive element;
							RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1)
							tm5400.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2181638 3'
							POLYPEPTIDE N-ACETYLGLYCOSAMINYLTRANSFERASE (PROTEIN-UDP
							ACETYLGLYCOSAMINYLTRANSFERASE) (UDP-GALNAc:POLYPEPTIDE, N-
							ACETYLGLYCOSAMINYLTRANSFERASE) (GALNAc-T1)
3356	16116	28771	0.83	2.0E-11	Q10473	SWISSPROT	
3488	16244		1.01	2.0E-11	AF020303.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHT) gene, exon 5
4408	17146		0.88	2.0E-11	BE06537.1	EST_HUMAN	RC3-B10316-170200-014-005 B10316 Homo sapiens cDNA
4587	17302		0.72	2.0E-11	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
4882	17609		1.77	2.0E-11	BE062598.1	EST_HUMAN	QV2-B10258-281088-014-001 B10258 Homo sapiens cDNA
8044	18824	31785	1.02	2.0E-11	AW817808.1	EST_HUMAN	QV2-P10073-280300-109408 P10073 Homo sapiens cDNA
8218	18982	31988	1.87	2.0E-11	AA581028.1	EST_HUMAN	nc8305.1 NCI CGAP_GCH1 Homo sapiens cDNA clone IMAGE:797433 5' similar to SW-PR16 YEAST
7095	19784	32950	0.59	2.0E-11	BF692945.1	EST_HUMAN	P19898 PRE-MRNA SPLICING FACTOR RNA HELICASE PRP16 ;
7782	20477		0.66	2.0E-11	P37072	SWISSPROT	7976703.x1 NCI CGAP_GCH1 Homo sapiens cDNA clone IMAGE:3442885 3'
							OLFACTORY RECEPTOR-LIKE PROTEIN COR6
9123	21611		1.14	2.0E-11	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10184	22832	36048	5.44	2.0E-11	Q13606	SWISSPROT	OLFACTORY RECEPTOR 61 OLFACTORY RECEPTOR-LIKE PROTEIN OLF1
10413	23059	36277	1.12	2.0E-11	AW868974.1	EST_HUMAN	RC4-OT0072-170400-013-011 OT0072 Homo sapiens cDNA
10413	23059	36278	1.12	2.0E-11	AW868974.1	EST_HUMAN	RC4-OT0072-170400-013-011 OT0072 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11056	23726	36997	1.48	2.0E-11	AA035368.1	EST_HUMAN	2427g02.s1 Scores_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:471794 3'
11056	23726	36998	1.48	2.0E-11	AA035368.1	EST_HUMAN	2427g02.s1 Scores_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:471794 3'
11060	23760	37035	1.57	2.0E-11	AA281058.1	EST_HUMAN	zsl1804.1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:685519 5'
12017	25332		1.54	2.0E-11	AA704195.1	EST_HUMAN	377603.s1 Scores_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:460824 3'
12048	24537		3.54	2.0E-11	AW942143.1	EST_HUMAN	RCO-QN0027-210100-011-g01 CN0027 Homo sapiens cDNA
12073	24596	31123	1.87	2.0E-11	BF377890.1	EST_HUMAN	CM2-TN0740-070600-372-g01 TN0740 Homo sapiens cDNA
12352	24748		2.67	2.0E-11	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12479	24640		3.14	2.0E-11	P06347	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
12781	25035		3.37	2.0E-11	11417866	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
681	13437	28078	1.34	1.0E-11	AJ131018.1	NT	Homo sapiens SCL gene locus
1106	13947	29011	3.35	1.0E-11	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
1435	14232		2.39	1.0E-11	AF119814.1	NT	Homo sapiens PRO3078 mRNA, complete cds
2030	14765	27494	1.13	1.0E-11	P16268	SWISSPROT	OXYSTEROL BINDING PROTEIN
2122	14853	27582	2.91	1.0E-11	AF000573.1	NT	Homo sapiens homogenitase 1,2-dioxygenase gene, complete cds
3490	16246	28900	1.2	1.0E-11	BE004315.1	EST_HUMAN	CN0-QN0105-170300-282-412 BN0105 Homo sapiens cDNA
5249	18055	30883	18.93	1.0E-11	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
5741	18533	31456	0.03	1.0E-11	BF222846.1	EST_HUMAN	7p57d01.x1 NCL CGAP_P1728 Homo sapiens cDNA clone IMAGE:3049845 3' similar to contains MER10.03
8101	20706	33026	3.15	1.0E-11	4885546	NT	MER10 repetitive element
8480	21172	34317	5.44	1.0E-11	R13174.1	EST_HUMAN	Homo sapiens PHD finger protein 2 (PHF2) mRNA
8946	21637	34782	1.89	1.0E-11	BF365119.1	EST_HUMAN	J73308.s1 Scores Infant brain INB Homo sapiens cDNA clone IMAGE:28188 5'
8946	21637	34783	1.89	1.0E-11	BF365119.1	EST_HUMAN	QV4-NN1149-250900-423-g03 NN1149 Homo sapiens cDNA
11267	23919	37212	1.92	1.0E-11	BF680078.1	EST_HUMAN	QV4-NN1149-250900-423-g03 NN1149 Homo sapiens cDNA
9637	22348	35542	1.07	9.0E-12	AL163300.2	NT	8021:64807F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4265977 5'
9637	22348	35543	1.07	9.0E-12	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
9237	21916		0.63	8.0E-12	BE074720.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C100
12125	24617		3.91	8.0E-12	AJ271736.1	NT	IL5-BT0578-130300-036-G12 BT0578 Homo sapiens cDNA
4613	17348	29882	1.16	7.0E-12	Q05904	SWISSPROT	Homo sapiens Xa pseudocatalase region; segment 2/2
11322	24013	37316	0.59	7.0E-12	AA704735.1	EST_HUMAN	34 KD SPIQUE MATRIX PROTEIN PRECURSOR (LSM34)
3335	16291		0.71	6.0E-12	AV730554.1	EST_HUMAN	J23g01.s1 Scores_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:451162 3'
4314	17053	28678	8.52	6.0E-12	AA732516.1	EST_HUMAN	AV730554 HTP Homo sapiens cDNA clone HTFAFW06 5'
6295	19068	32051	0.77	6.0E-12	AF020503.1	NT	nz58f11.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1302573 3' similar to contains Aliu repetitive element
							Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHTT) gene, exon 5

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8894	21585	34723	1.04	6.0E-12	AF03248.1	NT	Mouse axonin II myosin heavy chain P48A (P48A) mRNA, complete cds
8874	21949		1.87	6.0E-12	AA847898.1	EST_HUMAN	cd10g11.1 NCI_CGAP_G0381 Homo sapiens cDNA clone IMAGE:1367588 similar to contains MER28.12
1020	13760	26442	3.62	5.0E-12	BE0573.1	EST_HUMAN	MER29 repetitive element;
3385	16144	28801	1.81	5.0E-12	BE047776.1	EST_HUMAN	EST04462 Fetal brain, Striatum (cat433020) Homo sapiens cDNA clone HFB0V33
3713	16466	26104	6.03	5.0E-12	ALJ271738.1	NT	bx2005.y1 NCI_CGAP_Bim2 Homo sapiens cDNA clone IMAGE:2291217 5'
5631	18715	31671	6.41	5.0E-12	AL163278.2	NT	Homo sapiens X1 pseudobacterial region; segment 2/2
5631	18715	31672	6.41	5.0E-12	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
6399	19424	32167	11.33	5.0E-12	AW974760.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C078
8633	19424	32439	0.94	5.0E-12	AL040739.1	EST_HUMAN	EST136850 MAGC resequences, MAGN Homo sapiens cDNA
8642	19424	32439	1.16	5.0E-12	AL040739.1	EST_HUMAN	DKFZP434B1816.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434B1815 3'
8128	20822	33959	1.33	5.0E-12	AA033745.1	EST_HUMAN	DKFZP434B1816.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434B1815 3'
8666	21268		0.55	5.0E-12	AW867037.1	EST_HUMAN	DKFZP434B1816.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434B1815 3'
8893	21584		0.54	5.0E-12	ALJ079681.1	EST_HUMAN	DKFZP434B1816.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434B1815 3'
9006	21998	34847	2.83	5.0E-12	ALJ271735.1	NT	201912.11 Soares, fetal_liver, NCI_H115W Homo sapiens cDNA clone IMAGE:376718 3' similar to contains L1.83 L1.1 repetitive element;
9023	21990	35101	0.96	5.0E-12	P34682	SWISSPROT	OLFACTORY RECEPTOR 1D2 (OLFACTORY RECEPTOR-LIKE PROTEIN HGMPO7E)(OLFACTORY RECEPTOR 17-4)(OR17-4)
10175	22823		4.45	5.0E-12	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10262	22910	36120	0.76	5.0E-12	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
10468	23114	36344	0.44	5.0E-12	6978754	NT	Rattus norvegicus Deleted in colorectal cancer (rat homolog) (Doc), mRNA
237	13047	25688	4.2	4.0E-12	AA700328.1	EST_HUMAN	274911.11 Soares, fetal_liver, spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:460676 3'
238	13047	25688	4.03	4.0E-12	AA700328.1	EST_HUMAN	274911.11 Soares, fetal_liver, spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:460676 3'
4577	17312	28940	0.8	4.0E-12	AI699884.1	EST_HUMAN	bx2005.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2270745 3' similar to TR-Q13539 Q13539 MARINER TRANSPOSASE;
7619	20190		0.72	4.0E-12	BF446140.1	EST_HUMAN	nc21b03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3360077 3' similar to contains MER7.b2
8141	20635		3.2	4.0E-12	AF106907.1	NT	MER7 repetitive element;
8687	21279	34418	0.87	4.0E-12	AB042815.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
11019	23961	39954	4.2	4.0E-12	AJ228043.1	NT	Bos taurus Mth2 mRNA for mitochondrial carrier homolog 2, complete cds
12375	24774		2.76	4.0E-12	U76027.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
							Homo sapiens Brufen's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P3 (F1P3) genes, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
802	13380	28011	4.27	3.0E-12	AW341883.1	EST_HUMAN	ht133001.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2809377 3' similar to TR:O14517 O14517 SMRP.;
802	13380	28012	4.27	3.0E-12	AW341883.1	EST_HUMAN	ht133001.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2809377 3' similar to TR:O14517 O14517 SMRP.;
5084	17803	30421	0.81	3.0E-12	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
5365	18167	30853	1.52	3.0E-12	AF111188.2	NT	Homo sapiens serine palmitoyl transferase, substrate II gene, complete cds; and unknown genes
7654	20318	30853	0.83	3.0E-12	AW854328.1	EST_HUMAN	RC3-CT0285-031098-011-H02 CT0285 Homo sapiens cDNA
8273	20667	34108	0.51	3.0E-12	O35453	SWISSPROT	SERINE PROTEASE HEPSPIN
8004	21894	34844	0.52	3.0E-12	O35453	SWISSPROT	SERINE PROTEASE HEPSPIN
10551	23247	36483	3.03	3.0E-12	U37672.1	NT	Human prostate specific antigen gene, 5' flanking region
10551	23247	36484	3.03	3.0E-12	U37672.1	NT	Human prostate specific antigen gene, 5' flanking region
1649	14395	27064	1.39	2.0E-12	AW802131.1	EST_HUMAN	IL6-JM0071-120400-065-015 UM0071 Homo sapiens cDNA
4094	16836	29462	0.91	2.0E-12	J01884.1	EST_HUMAN	Rat U3A small nuclear RNA
4094	16836	29463	0.91	2.0E-12	J01884.1	NT	Rat U3A small nuclear RNA
4387	17124	30192	2.03	2.0E-12	BE068506.1	EST_HUMAN	CHMO-BT0281-031106-087-003 BT0281 Homo sapiens cDNA
4840	17570	30192	1.18	2.0E-12	O70308	SWISSPROT	TBX15 PROTEIN (T-BOX PROTEIN 15)
4840	17570	30193	1.18	2.0E-12	O70308	SWISSPROT	TBX15 PROTEIN (T-BOX PROTEIN 15)
5169	17978	30491	0.77	2.0E-12	P11369	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
6385	19154	32930	2.9	2.0E-12	AW971857.1	EST_HUMAN	EST388946 IMAGE:2809377 3' similar to TR:O14517 O14517 SMRP.;
7075	19786	32930	3.74	2.0E-12	T08169.1	EST_HUMAN	EST06090 Infant Brain, Bantix Soares Homo sapiens cDNA clone HIBBA13 5' end
7244	19829	33005	1.02	2.0E-12	BE173035.1	EST_HUMAN	MR0-HT0559-200400-015-008 HT0559 Homo sapiens cDNA
7558	20228	33331	2.2	2.0E-12	11422229	NT	Homo sapiens A-10-like transposable element (ALTE), mRNA
9208	20817	33331	1.84	2.0E-12	AF196864.1	NT	Homo sapiens putative BPES syndrome breakpoint region protein gene, complete cds
9895	22535	33331	11.12	2.0E-12	BE166980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10412	23098	36276	0.87	2.0E-12	A1334130.1	EST_HUMAN	qq07002.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1931835 3' similar to TR:Q13538 Q13538 ORF2; FUNCTION UNKNOWN.;
12032	24557	36276	2.81	2.0E-12	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
12223	24680	36276	2.5	2.0E-12	11418248	NT	Homo sapiens autotransferase-related protein (SULTX3), mRNA
119	12835	25579	2.21	1.0E-12	AW827674.1	EST_HUMAN	ht133001.x1 NC1 CGAP GU1 Homo sapiens cDNA clone IMAGE:2970040 3' similar to contains MER18.1 MER18 repetitive element;
1980	14716	28476	1.39	1.0E-12	AF000901.1	EST_HUMAN	wn15107.x1 NC1 CGAP GU2 Homo sapiens cDNA clone IMAGE:2439483 3' similar to contains L1.b3 L1 repetitive element;
3057	15833	28476	1.29	1.0E-12	AF000901.1	NT	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3067	15633	28477	1.28	1.0E-12	AF000691.1	NT	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cds
3855	16605	28242	28.43	1.0E-12	AU132248.1	EST_HUMAN	AU132248 NT2P3 Homo sapiens cDNA clone NT2P3004070 5'
3855	16605	29243	28.43	1.0E-12	AU132248.1	EST_HUMAN	AU132248 NT2P3 Homo sapiens cDNA clone NT2P3004070 5'
5877	16603		2.25	1.0E-12	U82828.1	NT	Homo sapiens ataxia telangiectasia (ATM) gene, complete cds
5950	18732		1.93	1.0E-12	Q9Y2G7	SWISSPROT	HYPOTHETICAL ZINC FINGER PROTEIN KIAA0681
6438	16206	32202	0.62	1.0E-12	AF226843.1	NT	Mus musculus WNT-2 gene, partial cds; putative ankyrin-related protein and cystic fibrosis transmembrane conductance regulator (CFTR) genes, section 1 of 2 of the complete cds; and unknown gene
7016	16708	32784	2.07	1.0E-12	AF108864.1	NT	Homo sapiens putative BPES syndrome breakpoint region protein gene, complete cds
7050	16741	32802	11.32	1.0E-12	AJ248533.1	EST_HUMAN	qf06a04.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1849814 3' similar to gb:M19603 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN)/contains MER10.11 MER10 repetitive element;
7050	16741	82803	11.32	1.0E-12	AJ248533.1	EST_HUMAN	qf06a04.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1849814 3' similar to gb:M19603 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN)/contains MER10.11 MER10 repetitive element;
8608	21208	34442	1.16	1.0E-12	AJ762323.1	EST_HUMAN	ec28a05.s1 Sin3alpha overy (#637217) Homo sapiens cDNA clone IMAGE:2021317 3' similar to contains element LTR3 repetitive element;
11273	23634		1.72	1.0E-12	AW469478.1	EST_HUMAN	hs38107.x1 NCL CGAP_CML1 Homo sapiens cDNA clone IMAGE:2021317 3' similar to contains element LTR3 repetitive element;
11042	24497	37808	4.54	1.0E-12	AW582164.1	EST_HUMAN	EST374237 IMAGE sequences, MAGG Homo sapiens cDNA
12150	24637		1.52	1.0E-12	AJ735592.1	EST_HUMAN	w63h08.x1 NCL CGAP_C010 Homo sapiens cDNA clone IMAGE:2392065 3'
12294	26306		2.92	1.0E-12	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
3818	10371		1	9.0E-13	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 12
3927	16677	28320	0.96	9.0E-13	AB028600.1	NT	Homo sapiens GST gene for carbonyl sulfide transferase, exon 1, 2, 3, 4, 5
9501	22154		2.67	9.0E-13	NG06653.1	EST_HUMAN	za28606.s1 Soares_fetal_liver_spleen_INFLS Homo sapiens cDNA clone IMAGE:203651 3'
700	13475	28123	7.37	8.0E-13	U28186.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
700	13475	28124	7.37	8.0E-13	U28186.1	NT	Homo sapiens prion protein (PrP) gene, complete cds
1850	14596	27781	2.94	8.0E-13	U60017.1	NT	Homo sapiens basic transcription factor 2 p44 (b2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nail) and survival motor neuron protein (smn) genes, complete cds
8011	20708	33834	0.78	8.0E-13	AJ884398.1	EST_HUMAN	wm31h09.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2437601 3'
8011	20708	33835	0.78	8.0E-13	AJ884398.1	EST_HUMAN	wm31h09.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2437601 3'
10046	22694		3.08	8.0E-13	U78027.1	NT	Homo sapiens Brd4's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44), and FTP3 (FTP3) genes, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11779	24370	37701	1.87	8.0E-13	U6060.1	NT	Human germline T-cell receptor beta chain TCRBV13S1, TCRBV6S8A2T, TCRBV6S8A3N2T, TCRBV13S6A2T, TCRBV6S8P, TCRBV6S3A2T, TCRBV13S8P, TCRBV6S3A1N1T, TCRBV6S2, TCRBV6S6A2T, TCRBV5S7P, TCRBV13S4, TCRBV6S2A1N1T, TCRBV6S4A2T, TCRBV6S4A1, TCRBV23S1A2T, TCRBV42
7718	20382	33495	0.71	7.0E-13	A1894398.1	EST_HUMAN	hm31106.x1 NCI CGAP U4 Homo sapiens cDNA clone IMAGE:2437601 3'
7718	20392	33496	0.71	7.0E-13	A1894398.1	EST_HUMAN	hm31106.x1 NCI CGAP U4 Homo sapiens cDNA clone IMAGE:2437601 3'
8133	20827	Q06165	0.56	7.0E-13	Q06165	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF2
12404	24788	7.0E-13	3.05	7.0E-13	BE78223.1	EST_HUMAN	301463265F1 NH_MGC 87 Homo sapiens cDNA clone IMAGE:3866613 5'
12817	24923		1.37	7.0E-13	Q10473	SWISSPROT	POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE (PROTEIN-UDP ACETYL GALACTOSAMINYLTRANSFERASE) (UDP-GALNAc:POLYPEPTIDE, N-ACETYL GALACTOSAMINYLTRANSFERASE) (GALNAc-T1)
2094	14925	27558	0.76	6.0E-13	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
3316	16076		0.74	5.0E-13	R78338.1	EST_HUMAN	AB2204.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:145759 5'
3392	16151		1.54	5.0E-13	AA435773.1	EST_HUMAN	277a12.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:728350 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;
8777	19521	32548	0.84	5.0E-13	P08983	SWISSPROT	GAP JUNCTION BETA-1 PROTEIN (CONNEXIN 30) (CX30)
10767	23451	36963	2.72	5.0E-13	P07313	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SKELETAL MUSCLE (MLCK)
1890	14998		2.23	4.0E-13	AW378614.1	EST_HUMAN	PM2-HT0224-221099-001-s11 HT0224 Homo sapiens cDNA
2462	15190		1.67	4.0E-13	AF003529.1	NT	Homo sapiens glycocalyx 3 (GPC3) gene, partial cds and flanking repeat regions
5469	18297	31195	5.51	4.0E-13	BE169131.1	EST_HUMAN	PM3-HT0520-220200-002-c08 HT0520 Homo sapiens cDNA
7105	19793	32958	1.05	4.0E-13	AB037790.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
7512	20183	33277	0.94	4.0E-13	AA431628.1	EST_HUMAN	zw76g12.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:782182 5' similar to TR:G452763
7620	20286		1.07	4.0E-13	N44291.1	EST_HUMAN	y63g05.r1 Soares melanocyte 2N4H1M Homo sapiens cDNA clone IMAGE:273080 5' similar to PIR:A32895
8740	21432	34577	1.07	4.0E-13	AL043810.1	EST_HUMAN	A32895 t complex sterility protein - mouse;
9402	22064	35235	0.45	4.0E-13	AA076607.1	EST_HUMAN	DKFZp434A0128.r1.434 (synonym: hnc5) Homo sapiens cDNA clone DKFZp434A0128 5'
9919	22568	35764	4.94	4.0E-13	AL289831.1	EST_HUMAN	7B04H11 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B04H11
11120	23789	37068	2.09	4.0E-13	AA435819.1	EST_HUMAN	q932403.x1 NCI CGAP U405 Homo sapiens cDNA clone IMAGE:189645 3' similar to contains Alu repetitive element
11120	23789	37067	2.09	4.0E-13	AA435819.1	EST_HUMAN	zw76g10.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:728514 3'
175	12987		4.94	3.0E-13	AF003528.1	NT	zw76g10.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:728514 3'
845	13915		1.62	3.0E-13	AA430310.1	EST_HUMAN	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
							zw68g08.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:781406 5'

Page 224 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe Seq ID NO.	Exon Seq ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Htt BLAST E Value	Top Htt Accession No.	Top Htt Database Source	Top Htt Descriptor
2370	15092	27831	1.26	3.0E-13	ALJ21736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
2483	15201		2.47	3.0E-13	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2696	15379	28177	2.91	3.0E-13	BF372982.1	EST_HUMAN	CMS-F10100-140700-242-H08 F10100 Homo sapiens cDNA clone IMAGE:1324035 3'
3182	15946		2.97	3.0E-13	AA745944.1	EST_HUMAN	z88h10.r1 Strategic lung carcinoma G37218 Homo sapiens cDNA clone IMAGE:1324035 3'
5452	18251	31140	0.59	3.0E-13	AA134017.1	EST_HUMAN	z88h10.r1 Strategic lung carcinoma G37218 Homo sapiens cDNA clone IMAGE:565315 5' similar to contains THR12 THR repetitive element;
5452	18251	31141	0.59	3.0E-13	AA134017.1	EST_HUMAN	z88h10.r1 Strategic lung carcinoma G37218 Homo sapiens cDNA clone IMAGE:565315 5' similar to contains THR12 THR repetitive element;
5902	19897	31635	0.62	3.0E-13	AW005939.1	EST_HUMAN	w878302.x1 NCI_GCAP Bm25 Homo sapiens cDNA clone IMAGE:2565890 3' similar to TR:O75139 TR:O75139 KIA0064 PROTEIN ;
7793	20478	33903	7.67	3.0E-13	U62111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Cdc42/Cadmodulin-dependent protein kinase 1 (CAMKK1), creatine transporter (CTTR), CDM protein (CDM), adenylylkinase protein >
7975	20670	33792	0.6	3.0E-13	AA352487.1	EST_HUMAN	EST160487 Activated T-cell XX Homo sapiens cDNA 5' and similar to similar to active protease P100, Ractive factor
7975	20670	33793	0.6	3.0E-13	AA352487.1	EST_HUMAN	EST160487 Activated T-cell XX Homo sapiens cDNA 5' and similar to similar to active protease P100, Ractive factor
10088	22746	35861	0.72	3.0E-13	AW065487.1	EST_HUMAN	RC3-DT0007-110100-014-g10 DT0007 Homo sapiens cDNA
10575	23270		3.61	3.0E-13	AD04786.1	EST_HUMAN	HA0536 Homo sapiens fetal liver cDNA library Homo sapiens cDNA
10975	23951	39004	3.98	3.0E-13	BE063592.1	EST_HUMAN	CMA-B10281-031169-087-403 B10281 Homo sapiens cDNA
11588	24197	37517	2.29	3.0E-13	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
145	12960	25602	3.42	2.0E-13	U52111.2	NT	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Cdc42/Cadmodulin-dependent protein kinase 1 (CAMKK1), creatine transporter (CTTR), CDM protein (CDM), adenylylkinase protein >
232	13043	25683	2.06	2.0E-13	U23639.1	NT	Dario nerio fibroblast growth factor receptor 4 mRNA, complete cds
1247	13906	29693	7.99	2.0E-13	AF239710.1	NT	Homo sapiens DNA polymerase delta small subunit (POLD2) gene, exon 1 through 11 and complete cds
3005	15771	28419	0.9	2.0E-13	8624119	NT	Homo sapiens hypothetical protein PRO2190 (PRO2190), mRNA
3005	15771	28420	0.9	2.0E-13	8624119	NT	Homo sapiens hypothetical protein PRO2190 (PRO2190), mRNA
3275	16036	26986	1.13	2.0E-13	BF431890.1	EST_HUMAN	ncb76905.x1 Source_NSF_F8_GW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3'
3498	16254	29608	1.11	2.0E-13	AF106907.1	NT	Homo sapiens S164, genes, partial cds; P51 and hypothetical protein genes, complete cds; and S171 gene, partial cds
4088	18831		1.34	2.0E-13	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078

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Single Exon Probes Expressed in Brain

Probe Seq ID NO:	Exon Seq ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6032	18812	31772	4.7	2.0E-13	Q08852	SWISSPROT	CELL SURFACE GLYCOPROTEIN 1 PRECURSOR (OUTER LAYER PROTEIN B) (S-LAYER PROTEIN 1)
6113	18860		0.98	2.0E-13	X79417.1	NT	S. scrofa rps12 mRNA for ribosomal protein S12
6717	19632	32675	7.15	2.0E-13	X10912.1	NT	Human PKL gene for liver-type 6-phosphofructokinase (EC 2.7.1.11) exon 2
6904	19436	32451	0.86	2.0E-13	10835072	NT	Homo sapiens N-myristoyltransferase 1 (NMT1), mRNA
6954	19436	32452	0.86	2.0E-13	10835072	NT	Homo sapiens N-myristoyltransferase 1 (NMT1), mRNA
10355	23002	39219	3.87	2.0E-13	5031806	NT	Homo sapiens mab-21 (C. elegans)-like 1 (MAB21L1) mRNA
12105	24602		3.48	2.0E-13	AW882155.1	EST_HUMAN	CAG-NN0001-10300-274-s11 NN0001 Homo sapiens cDNA
285	13091	25732	1.52	1.0E-13	S74129.1	NT	FGF-1 fibroblast growth factor 1 [human, kidney, Genomic, 342 nt, segment 2 of 2]
888	13637	26307	5.64	1.0E-13	AJ007973.1	NT	Homo sapiens LGMD2B gene
1313	14061	28736	1.08	1.0E-13	X87344.1	NT	H. sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING9, 9, 13 and 14 genes
2015	14750	27478	2.13	1.0E-13	AA720574.1	EST_HUMAN	THR repetitive element;
4553	17298	29817	1.64	1.0E-13	BF340867.1	EST_HUMAN	602038006F1 NC1 CGAP_Bm64 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THRL3
7810	20505	33626	0.78	1.0E-13	AA577812.1	EST_HUMAN	nm24401.s1 NC1 CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1084801 3' similar to contains Alu repetitive element; contains element MER24 repetitive element;
7810	20505	33627	0.78	1.0E-13	AA577812.1	EST_HUMAN	nm24401.s1 NC1 CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1084801 3' similar to contains Alu repetitive element; contains element MER24 repetitive element;
6990	22638		0.79	1.0E-13	O15481	SWISSPROT	MELANOMA-ASSOCIATED ANTIGEN B4 (MAGE-B4 ANTIGEN)
10199	22847	38063	0.53	1.0E-13	AF300701.1	NT	Mus musculus osteoblastic protein tyrosine phosphatase mRNA, complete cds
11352	24042	37345	11.1	1.0E-13	BF108755.1	EST_HUMAN	745e10.x1 Soares_NSJ_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3524443 3' similar to contains MER29.b2 MER29 repetitive element;
11834	24402		2.26	1.0E-13	AV716377.1	EST_HUMAN	AV716377 DGB Homo sapiens cDNA clone DGBAIE03 5'
12593	24693		2.12	1.0E-13	AJ271735.1	NT	Homo sapiens Xq pseudocentromeric region; segment 1/2
324	13125	25761	1.81	9.0E-14	AA781150.1	EST_HUMAN	sp24c01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1301232 3' similar to contains MER19.11 MER19 repetitive element;
326	13126	25762	3.05	9.0E-14	AA781150.1	EST_HUMAN	sp24c01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1301232 3' similar to contains MER19.11 MER19 repetitive element;
2504	15221		3.86	9.0E-14	AW881577.1	EST_HUMAN	RC4-CT10322-080100-013-009 CT10322 Homo sapiens cDNA
2598	15313	28050	1.18	9.0E-14	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
2598	15313	28051	1.18	9.0E-14	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
2758	15463	28206	2.6	9.0E-14	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
3109	19674	28513	3.96	9.0E-14	AW519286.1	EST_HUMAN	x064f05.x1 NC1 CGAP_UH Homo sapiens cDNA clone IMAGE:2707833 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3232	13125	25761	0.84	9.0E-14	AA781159.1	EST_HUMAN	sq24c01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391232 3' similar to contains MER19.11 MER19
3778	16530	29189	0.85	9.0E-14	D14547.1	NT	repetitive element;
4707	17439	30071	1.06	9.0E-14	AJ002163.1	NT	Human DNA, SINE repetitive element
3489	16245		1.27	8.0E-14	BE48283.1	EST_HUMAN	Sequlirus codicua gene for seminal vesicle secreted protein semanogelin I
3937	16987		2.67	8.0E-14	RT6289.1	EST_HUMAN	h271000.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213424 3'
6348	20419	33539	16.04	8.0E-14	X89211.1	NT	yf72003.r1 Soares placentia Nb24p Homo sapiens cDNA clone IMAGE:144788 3'
9400	22010	35180	3.68	8.0E-14	AA219316.1	EST_HUMAN	H.sapiens DNA for endogenous retroviral insertion element
11410	24059		1.72	8.0E-14	BE022568.1	EST_HUMAN	2417c10.s1 Stragena fetal retina 637202 Homo sapiens cDNA clone IMAGE:623970 3'
12302	24727	31056	2.48	8.0E-14	AI688118.1	EST_HUMAN	QV2-BT0258-281089-014-401 BT0258 Homo sapiens cDNA
1625	15574		4.77	7.0E-14	AW151673.1	EST_HUMAN	wc821008.x1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:2328143 3'
8818	21510		10.57	7.0E-14	AL163285.2	NT	x87a10.x1 NCL_CGAP_G04 Homo sapiens cDNA clone IMAGE:2623148 3' similar to contains MER10.12
358	13156	25787	14.14	0.0E-14	AF020503.1	NT	Homo sapiens cDNA clone HS21C085
9722	22373	35572	2.5	0.0E-14	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
9722	22373	35573	2.5	0.0E-14	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
904	13382	28014	5.46	0.0E-14	Q83120	SWISSPROT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
4893	17716	30322	1.41	5.0E-14	AW073701.1	EST_HUMAN	CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER 1 (MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN 2) (CANALICULAR MULTIDRUG RESISTANCE PROTEIN)
5448	16245	31133	5.77	5.0E-14	P08547	SWISSPROT	X833006.x1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2575185 3' similar to contains L1.12 L1
1101	15560		2.18	4.0E-14	P04828	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
1870	14808	27319	5.9	4.0E-14	AJ007973.1	NT	S-ANTIGEN PROTEIN PRECURSOR
3735	19486		0.87	4.0E-14	AA046502.1	EST_HUMAN	Homo sapiens LGMD2B gene
4259	17000	29530	1.05	4.0E-14	N46328.1	EST_HUMAN	247a03.r1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:487888 5'
7856	20953		0.59	4.0E-14	X87344.1	NT	yf73c12.r1 Soares_multiple_adenocarcinoma_ZNH1MSP Homo sapiens cDNA clone IMAGE:279190 3' similar to contains L1.13 L1 repetitive element
12626	25414		7.02	4.0E-14	AI895224.1	EST_HUMAN	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING8, 9, 13 and 14 genes
930	13967	26361	1.88	3.0E-14	X65493.1	NT	wm08c03.x1 NCL_CGAP_UH4 Homo sapiens cDNA clone IMAGE:2435332 3' similar to contains Alu repetitive element
							R non-viral mRNA for CP-G2 protein

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4870	17597	30220	0.92	3.0E-14	AW263354.1	EST_HUMAN	xp4512.x1 NCL CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743943 3' similar to contains Alu repetitive element; contains element MERB repetitive element;
4873	17600	30222	0.97	3.0E-14	7659894	NT	Homo sapiens a disintegrin and metalloproteinase domain 20 (ADAM29) mRNA
6835	19397	32411	1.49	3.0E-14	A420786.1	EST_HUMAN	ta91c12.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:O00519 O00519 FATTY ACID AMIDE HYDROLASE.
6835	19397	32412	1.49	3.0E-14	A420786.1	EST_HUMAN	ta91c12.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:O00519 O00519 FATTY ACID AMIDE HYDROLASE.
6744	25099	34522	0.92	3.0E-14	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
8996	21378	34522	0.87	3.0E-14	N42165.1	EST_HUMAN	007b10.t1 Soares melanocyte 2N1H1M Homo sapiens cDNA clone IMAGE:270523 5'
10914	22594	36840	1.28	3.0E-14	BE988018.1	EST_HUMAN	607511330F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
11201	17597	30220	7.19	3.0E-14	AW263354.1	EST_HUMAN	xp4512.x1 NCL CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743943 3' similar to contains Alu repetitive element; contains element MERB repetitive element;
12539	25282		1.68	3.0E-14	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
381	13168	25811	3.71	2.0E-14	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
381	13168	25812	3.71	2.0E-14	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
674	15548	26091	9.05	2.0E-14	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2387	15108		1.49	2.0E-14	AW372998.1	EST_HUMAN	RG5-BT0377-091299-031-D12 BT0377 Homo sapiens cDNA
2497	15185		2.15	2.0E-14	7657528	NT	Homo sapiens fibroblast tumor deletion region protein 1 (RTDR1), mRNA
2529	15245	27983	1.19	2.0E-14	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2542	15259		1.14	2.0E-14	BE222432.1	EST_HUMAN	h90g10.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3180738 3' similar to contains Alu repetitive element; contains ORF11 OFR repetitive element;
2881	13390		0.95	2.0E-14	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
5437	18236	30950	0.8	2.0E-14	BF380861.1	EST_HUMAN	IL2-UT0072-240800-142-D07 UT0072 Homo sapiens cDNA
5533	18331	31236	0.92	2.0E-14	A812361.1	EST_HUMAN	ta78t01.x2 NCL CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2090225 3' similar to contains L1.13 L1 repetitive element;
5634	18426	31342	3.42	2.0E-14	U01317.1	NT	Human beta globin region on chromosome 11
6784	19528		0.91	2.0E-14	BE000950.1	EST_HUMAN	RG3-BN0072-240200-011-a08 BN0072 Homo sapiens cDNA
6984	19677	32724	0.62	2.0E-14	4985709	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11) mRNA
7185	19871	32945	1.25	2.0E-14	P58163	SWISSPROT	ZINC-FINGER PROTEIN NEURO-D4
7407	20084	33167	22.12	2.0E-14	BE198761.1	EST_HUMAN	IL2-HT0397-071298-024-D04 HT0397 Homo sapiens cDNA
7407	20084	33168	22.12	2.0E-14	BE198761.1	EST_HUMAN	IL2-HT0397-071298-024-D04 HT0397 Homo sapiens cDNA
9817	22468	35671	0.57	2.0E-14	A1978786.1	EST_HUMAN	w58g10.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2492034 3' similar to contains Alu repetitive element
10317	22894	36181	0.53	2.0E-14	AV741648.1	EST_HUMAN	AV741648 CB Homo sapiens cDNA clone CBFBFB04 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10679	23370	36912	4.88	2.0E-14	AW136800.1	EST_HUMAN	U1H-B1-adv-e-10-0-U1.st NCI_OGAP_Sub3 Homo sapiens cDNA clone IMAGE:271824 3'
11591	24190	37507	1.29	2.0E-14	AW083596.1	EST_HUMAN	xc3602.x1 NCI_OGAP_Co20 Homo sapiens cDNA clone IMAGE:286363 3' similar to contains MERR1.13
12535	25284		2.29	2.0E-14	AF008191.1	NT	MER1 repetitive element:
10445	13804	26463	1.86	1.0E-14	AL163246.2	NT	Homo sapiens putative G8 protein (GR8) gene, complete cds
1395	14132	26905	6.41	1.0E-14	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C046
1395	14132	26906	6.41	1.0E-14	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
1894	14730	27452	12.44	1.0E-14	AL44140.1	NT	Homo sapiens chromosome X region from filamin (FLN) gene to glucose-6-phosphate dehydrogenase (G6PD) gene, complete cds
2182	14911	27643	4.55	1.0E-14	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2409	15130	27686	3.58	1.0E-14	AF001689.1	NT	Homo sapiens ribosomal protein L23A (RPL23A) gene, complete cds
2945	15711	28393	1.79	1.0E-14	P05227	SWISSPROT	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-II)
3165	15628	28576	5.42	1.0E-14	BF35227.1	EST_HUMAN	RC2-CT0432-310700-013-409_1 CT0432 Homo sapiens cDNA
3165	15628	28577	5.42	1.0E-14	BF35227.1	EST_HUMAN	RC2-CT0432-310700-013-409_1 CT0432 Homo sapiens cDNA
3686	16916	29255	1.87	1.0E-14	AA682894.1	EST_HUMAN	ae99c12.x1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:3971350 3'
4440	17178	29802	1.91	1.0E-14	AW275852.1	EST_HUMAN	xc39n10.x1 NCI_OGAP_Lu28 Homo sapiens cDNA clone IMAGE:2753059 3'
5719	18511	31432	2.42	1.0E-14	AF126145.1	NT	Bos taurus xenobiotic/medium-chain fatty acid-CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
6576	25065	32351	11.5	1.0E-14	11437150	NT	Homo sapiens protein, complete cds
6576	25065	32352	11.5	1.0E-14	11437150	NT	Homo sapiens protein (mouse)-like 1 (PROML1), mRNA
11818	15628	28576	3.05	1.0E-14	BF35227.1	EST_HUMAN	RC2-CT0432-310700-013-409_1 CT0432 Homo sapiens cDNA
11818	15628	28577	3.05	1.0E-14	BF35227.1	EST_HUMAN	RC2-CT0432-310700-013-409_1 CT0432 Homo sapiens cDNA
1570	14317	27002	2.08	9.0E-15	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR), mRNA
2170	14896		1.43	9.0E-15	AF106779.1	NT	Homo sapiens transcription factor IG-III enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel α_2
7395	20074	33152	4.51	9.0E-15	P21416	SWISSPROT	GAG POLYPROTEIN [CONTAINS: CORE PROTEINS P15, P12, P30, P10]
7915	20910	33740	1.08	9.0E-15	BE903596.1	EST_HUMAN	90167750F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960156 5'
12718	24891		2.38	9.0E-15	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2814	13263		0.91	8.0E-15	BE281482.1	EST_HUMAN	901148632F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3164023 5'
7081	19771	32836	1.14	7.0E-15	BF03527.1	EST_HUMAN	901456531F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3902086 5'
10384	22981		3.07	7.0E-15	AW241958.1	EST_HUMAN	xn7402.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2700483 3' similar to contains THR12 THR repetitive element:
973	13736	26403	8.64	6.0E-15	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5826	18618	31540	1.02	6.0E-15	X73462.1	NT	O-arica mRNA for hair keratin cysteine-rich protein
5828	18618	31550	1.02	6.0E-15	X73462.1	NT	O-arica mRNA for hair keratin cysteine-rich protein
401	13186	26834	6.83	5.0E-16	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
2764	15469	28212	1.38	5.0E-15	U01328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RefSeq gene, and sodium phosphate transporter (NPT3) gene, complete cds
3481	18217		1.03	5.0E-15	AW268917.1	EST_HUMAN	UHH-BW0-8p-g-10-0-J1.1 NCI CGAP_Suho Homo sapiens cDNA clone IMAGE:2731218 3'
10574	23269		2.4	5.0E-15	AF730058	EST_HUMAN	HTF Homo sapiens cDNA clone HTFAVE08 5'
418	12829	25442	2.85	4.0E-15	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
6687	18332	32339	0.76	4.0E-15	AB007070.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0501
10684	20362	33505	3.08	4.0E-16	AJ130894.1	NT	Homo sapiens mRNA for transcription factor
10684	20362	33506	3.08	4.0E-15	AJ130894.1	NT	Homo sapiens mRNA for transcription factor
4182	18833		7.06	3.0E-15	N88432.1	EST_HUMAN	LY1142F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone LY1142 5' similar to ANF(CARDIOMODILATIN)
4872	17999		0.79	3.0E-15	P92485	SWISSPROT	NADHUBIQUINONE OXIDOREDUCTASE CHAIN 6
6716	18631		1.33	3.0E-15	Q84825	SWISSPROT	GLUTATHIONE PEROXIDASE RYZD1 PRECURSOR (ODORANT-METABOLIZING PROTEIN RYZD1)
7179	18665	32837	2.9	3.0E-15	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
7179	18665	32838	2.9	3.0E-15	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
9825	22476		2.51	3.0E-15	AA807128.1	EST_HUMAN	oc35ed7 s1 NCI CGAP_G081 Homo sapiens cDNA clone IMAGE:1351764 3' similar to contains MER19.17
							MER19 repetitive element ;
							Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
10684	23395	36625	2.47	3.0E-15	AB026898.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
12310	26316		1.81	3.0E-15	AJ271735.1	NT	QMA-PTD034-180200-508-401 PTD034 Homo sapiens cDNA
12814	26056		1.35	3.0E-15	AW877214.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced
243	13052	25662	3.6	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced
358	13157	25798	3.99	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced
359	13157	25799	3.99	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3500	16256	28910	0.71	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3500	16256	28911	0.71	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4049	19794	29423	1.08	2.0E-15	AW238499.1	EST_HUMAN	xp22h01.x1 NCL CGAP_HN10 Homo sapiens cDNA clone IMAGE:2741521 3' similar to contains L1.13 L1 repetitive element;
4580	17315		2.46	2.0E-15	AB003935.1	EST_HUMAN	W07606.x1 Soares_NFL_T_OBG_S1 Homo sapiens cDNA clone IMAGE:2849923 3' similar to TR:Q61043 Q61043 NINEIN ;
6089	19897	31833	0.88	2.0E-15	BE562352.1	EST_HUMAN	Q01344233F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677288 5'
6089	19897	31834	0.88	2.0E-15	BE562352.1	EST_HUMAN	Q01344233F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677288 5'
7014	19706		1.5	2.0E-15	AJ400877.1	NT	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
7171	19857	32929	2.62	2.0E-15	AA704106.1	EST_HUMAN	z177603.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:400824 3'
7204	19977	33054	5.18	2.0E-15	W05004.1	EST_HUMAN	z177610.1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:400824 3'
8804	21496	34642	2.86	2.0E-15	D14547.1	NT	WP:F44F4.8 CE02227 TRANSPOSASE ;
8871	21661	34811	1	2.0E-15	AA397768.1	EST_HUMAN	Human DNA, SINE repetitive element
8871	21661	34812	1	2.0E-15	AA397768.1	EST_HUMAN	z177608.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'
9304	21971	35145	1.23	2.0E-15	AW379465.1	EST_HUMAN	z177608.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'
9304	21971	35146	1.23	2.0E-15	AW379465.1	EST_HUMAN	CMG-HT0244-201089-078-412 HT0244 Homo sapiens cDNA
10742	22429		5.66	2.0E-15	AJ271735.1	NT	CMG-HT0244-201089-078-412 HT0244 Homo sapiens cDNA
12451	25338		2.04	2.0E-15	U82828.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
12853	16256	28910	3.34	2.0E-15	AF223391.1	NT	Homo sapiens ataxia telangiectasia (ATM) gene, complete cds
12853	16256	28911	3.34	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2777	15482		2.39	1.0E-15	AI688994.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3011	15771	28427	1.35	1.0E-15	BE043584.1	EST_HUMAN	z177608.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:2899182 5'
3139	15903	28548	1.28	1.0E-15	P00547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
5138	17868		0.87	1.0E-15	AW021431.1	EST_HUMAN	df28406.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2484202 5'
6270	13052	32030	1.74	1.0E-15	T06783.1	EST_HUMAN	ye40410.x1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:120234 3' similar to contains MER8 repetitive element;
6809	19847		2.12	1.0E-15	BE074217.1	EST_HUMAN	QV3-BT0569-270 100-074-p05 BT0569 Homo sapiens cDNA
8131	20825	33961	0.86	1.0E-15	AL163280.2	NT	Human sapiens chromosome 21 segment HS21C080
8319	21012	34149	4.56	1.0E-15	AJ200978.1	EST_HUMAN	df88408.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755227 3'
8319	21012	34160	4.56	1.0E-15	AJ200978.1	EST_HUMAN	df88408.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755227 3'
8937	21628	34770	0.87	1.0E-15	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007

Page 231 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8040	21631	34774	1.78	1.0E-16	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
9146	21877	35042	0.87	1.0E-15	Q36575	SWISSPROT	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM
9532	22185	35370	0.94	1.0E-15	AA804653.1	EST_HUMAN	d437c03.s1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1459072 3' similar to contains L1.13 L1
10720	23409	36851	3.6	1.0E-15	AF044083.1	NT	repetitive element; Homo sapiens major histocompatibility locus class III region
12722	25148	30868	4.72	1.0E-16	AI763844.1	EST_HUMAN	k31c05.x1 NCL CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2219912 3' similar to contains Alu repetitive element
4469	17204	28930	0.98	9.0E-16	4803108	NT	Homo sapiens cct1 (Drosophila)-like 1 (CCAAT displacement protein) (CUTL1) mRNA
10915	23595	36841	2.04	9.0E-16	F08888.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-2305
11608	24291	37615	1.46	9.0E-16	AI244341.1	EST_HUMAN	q70d02.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1895354 3' similar to contains MER10.13
11608	24291	37615	1.46	9.0E-16	AI244341.1	EST_HUMAN	q70d02.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1895354 3' similar to contains MER10.13
5615	18411	31324	0.71	7.0E-16	4885120	NT	MER10 repetitive element; Homo sapiens chemokine (C-C motif) receptor 8 (CCR8) mRNA
7241	19928	33001	1.49	7.0E-16	O88907	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4)
7241	19928	33002	1.49	7.0E-16	O88907	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4)
12075	25237		1.98	7.0E-16	T94149.1	EST_HUMAN	(PEPTIDYLARGININE DEIMINASE TYPE ALPHA)
2137	14867		8.38	9.0E-16	AW972811.1	EST_HUMAN	Y28c12.f1 Stage lung (#637210) Homo sapiens cDNA clone IMAGE:119062 5'
1470	14223	26509	1.08	5.0E-16	AJ251164.1	NT	EST384702 IMAGE resequencing, MAGI, Homo sapiens cDNA
2887	15398	28134	2.17	5.0E-16	AA802178.1	EST_HUMAN	Mus musculus olfactory receptor cluster, OR37A, OR37B, OR37C, OR37E genes and OR37D pseudogene contains element L1 repetitive element;
9854	22602	35806	0.54	5.0E-16	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11504	24105	37418	3.6	5.0E-16	BF217368.1	EST_HUMAN	601885734f1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4104129 5'
12757	25018		14.19	5.0E-16	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
2293	14891		1.81	4.0E-16	AB001623.1	NT	Homo sapiens gene for TMEM1 and PW/P2 complete and partial cds
2378	15100	27839	1.77	4.0E-16	AW707168.1	EST_HUMAN	QV1-UM0036-200300-115-g02 UM0036 Homo sapiens cDNA
2378	15100	27840	1.77	4.0E-16	AW707168.1	EST_HUMAN	QV1-UM0036-200300-115-g02 UM0036 Homo sapiens cDNA
3460	16206	28859	3.58	4.0E-16	Q176953	SWISSPROT	MYEIN-OLIGODENDROCYTE GLYCOPROTEIN PRECURSOR
4121	19893	29489	5.02	4.0E-16	BE063675.1	EST_HUMAN	PMA-BT0650-010400-002-g08 BT0650 Homo sapiens cDNA
4121	19893	29490	5.02	4.0E-16	BE063675.1	EST_HUMAN	PMA-BT0650-010400-002-g08 BT0650 Homo sapiens cDNA
7612	20278	33396	46.62	4.0E-16	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9105	21865	35029	1.04	4.0E-16	11422181	NT	Homo sapiens hypothetical protein FLJ10024 (FLJ10024), mRNA.
11182	23847	37133	1.51	4.0E-16	AV730030.1	EST_HUMAN	AV730030 HITF Homo sapiens cDNA clone HITFAWA03 5'
11851	24435	37778	1.44	4.0E-16	Q02832	SWISSPROT	FOLLISTATIN-RELATED PROTEIN PRECURSOR
12014	24547		2.04	4.0E-16	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
12109	24005	31087	2.51	4.0E-16	8912459	NT	Homo sapiens Gp2-associated binder 2 (KIAA0571), mRNA
130	12945	25599	2.03	3.0E-16	AW022892.1	EST_HUMAN	d44501.11 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486376 5'
130	12645	25590	2.03	3.0E-16	AW022892.1	EST_HUMAN	d44501.11 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486376 5'
453	13239		1.5	3.0E-16	AL048445.1	EST_HUMAN	DKFZp434P037.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434P037 5'
483	13248		1.5	3.0E-16	AF135446.1	NT	Homo sapiens TSX (TSX) pseudogene, exon 5
1435	14182	28867	1.38	3.0E-16	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2975	15741	28388	3.78	3.0E-16	P03200	SWISSPROT	ENVELOPE GLYCOPROTEIN GP340 (MEMBRANE ANTIGEN) (MA) [CONTAINS: GLYCOPROTEIN GP220]
3913	16663	28304	19.83	3.0E-16	T08169.1	EST_HUMAN	ESTT08060 Infant Brain, Banto Soares Homo sapiens cDNA clone HIBBA13 6' end
3830	16690		0.95	3.0E-16	U03887.1	NT	Human BXP20 gene
5196	18004		0.99	3.0E-16	AA077225.1	EST_HUMAN	7B10F02 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B10F02
5526	18327	31230	1.79	3.0E-16	AF003529.1	NT	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
8556	21248	34987	4.28	3.0E-16	AI002836.1	EST_HUMAN	en0805.51 Stratiotes echin brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR_b2 THR repetitive element
9790	22441		0.59	3.0E-16	BF600617.1	EST_HUMAN	602246538F1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:4332032 5'
10019	22687	35883	5.57	3.0E-16	L78910.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
651	13717		1.2	2.0E-16	AL163279.2	NT	Homo sapiens chromosome 21 segment HS27C079
2395	15106		0.91	2.0E-16	AA621761.1	EST_HUMAN	af06404.1 Soares testis, NHT Homo sapiens cDNA clone IMAGE:1030855 3'
2894	15403		1.08	2.0E-16	J03061.1	NT	Human SSAN-related endogenous retroviral LTR-like element
4157	16997	29526	1.16	2.0E-16	X98211.1	NT	H.sapiens DNA for endogenous retroviral like element
4447	17183	29807	0.98	2.0E-16	AI208733.1	EST_HUMAN	q95603.1 Soares testis, NHT Homo sapiens cDNA clone IMAGE:1839187 3' similar to contains MER28.13
5104	17822	30439	0.78	2.0E-16	BE061178.1	EST_HUMAN	MER29 repetitive element
6642	19404	32419	0.99	2.0E-16	Q31125	SWISSPROT	RC9-BT0046-131189-003-H12 BT00-40 Homo sapiens cDNA HISTIDINE-RICH PROTEIN KE4
7915	20281	33389	0.75	2.0E-16	AI470723.1	EST_HUMAN	af16611.1 NCL_CGAP_Gene4 Homo sapiens cDNA clone IMAGE:2141708 3' similar to contains element MER33 repetitive element
7897	20582	33980	2.14	2.0E-16	AI732837.1	EST_HUMAN	nc4708.35 NCL_CGAP_P12 Homo sapiens cDNA clone IMAGE:1280947 similar to TR:054848 054848 HYPOTHETICAL 42.9 KD PROTEIN, [2] TR:006805 contains MER1.11 MERT repetitive element
8058	20762	33983	0.57	2.0E-16	BE898026.1	EST_HUMAN	7182f08.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:3303521 3'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8098	20752	33884	0.57	2.0E-16	BE856020.1	EST_HUMAN	782H09.x1 NCL CGAP_P28 Homo sapiens cDNA clone IMAGE:3303521 3'
8425	21118	34256	0.81	2.0E-16	AW877214.1	EST_HUMAN	GM4-PT0034-180200-508-401 PT0034 Homo sapiens cDNA
8425	21118	34257	0.81	2.0E-16	AW877214.1	EST_HUMAN	GM4-PT0034-180200-508-401 PT0034 Homo sapiens cDNA
180	12992	26630	1.84	1.0E-16	AF200719.1	NT	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
373	13108		20.66	1.0E-16	AA028502.1	EST_HUMAN	af39111.1 Soares fetal_fetus_NB2HF8_3w Homo sapiens cDNA clone IMAGE:1034084 3' similar to contains ORF12 OFR repetitive element:
1903	14698	27414	2.37	1.0E-16	BF327942.1	EST_HUMAN	QV0-BN0148-070700-293-at10 BN0148 Homo sapiens cDNA
5635	18430	31343	0.75	1.0E-16	AF163964.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
6341	19111		27.85	1.0E-16	U45983.1	NT	Homo sapiens CCR8 chemokine receptor (CCR8) gene, complete cds
6478	19246	32246	3.39	1.0E-16	Q02779	SWISSPROT	MITOGEN-ACTIVATED PROTEIN KINASE KINASE 10 (MIXED LINEAGE KINASE 2) (PROTEIN KINASE MST)
7453	19111		7.15	1.0E-16	U45983.1	NT	Homo sapiens CCR8 chemokine receptor (CCR8) gene, complete cds
9183	21853	35018	1.07	1.0E-16	AW975651.1	EST_HUMAN	QV2-PT0012-040400-124-406 PT0012 Homo sapiens cDNA
3722	19476	28112	2.11	9.0E-17	AW900048.1	EST_HUMAN	GM1-NN1003-200300-153-401 NN1003 Homo sapiens cDNA
6824	18386		2.2	9.0E-17	A1892994.1	EST_HUMAN	tg22-11.x1 NCL CGAP_CELL1 Homo sapiens cDNA clone IMAGE:2109524 3' similar to contains MER28.12 MER28 repetitive element:
8007	20702		4.76	9.0E-17	AW150257.1	EST_HUMAN	xg49g12.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2630950 3' similar to contains OFR12 OFR repetitive element:
10124	22772		2.47	9.0E-17	AF200719.1	NT	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
897	13757		1.77	8.0E-17	AW880701.1	EST_HUMAN	QV0-OT0032-060300-155-401 OT0032 Homo sapiens cDNA
3872	16622		0.87	8.0E-17	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5496	25066	31183	3.37	8.0E-17	BE172081.1	EST_HUMAN	MRO-HT0559-060300-003-404 HT0559 Homo sapiens cDNA
7175	19881		1.94	8.0E-17	AV730759.1	EST_HUMAN	AV730759 HTF Homo sapiens cDNA clone HTFAQB07 5'
1441	14188		3.44	7.0E-17	6733097	NT	Mus musculus splicing factor B editing complex 2 (ApoBec2), mRNA
5240	18046		3.3	7.0E-17	AF216650.1	NT	Homo sapiens putative MTAP (MTAP) mRNA, partial cds, alternatively spliced
6698	16351	32965	8.05	7.0E-17	AF220843.1	NT	Mus musculus WNT-2 gene, partial cds; putative arylsulfatase-related protein and cytosolic fibroblast transmembrane conductance regulator (CFTR) genes, section 1 of 2 of the complete cds; and unknown gene
198	13011	25693	8	8.0E-17	AW983880.1	EST_HUMAN	RC1-HN0003-220300-021-404 HN0003 Homo sapiens cDNA
6221	19695	31971	1.04	6.0E-17	AW962772.1	EST_HUMAN	hB1d04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978995 3' similar to contains L112 L1 repetitive element:
10180	22638	36053	0.46	6.0E-17	P20138	SWISSPROT	MYELOID CELL SURFACE ANTIGEN CD33 PRECURSOR (GP87)
412	12823	28436	2.97	6.0E-17	T64110.1	EST_HUMAN	ycc6f06.r1 Stratiogene lung (4637210) Homo sapiens cDNA clone IMAGE:79639 5'
7486	20158	33250	2.09	6.0E-17	T81043.1	EST_HUMAN	ycc2604.r1 Soares fetal liver spleen TNF- α Homo sapiens cDNA clone IMAGE:109327 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3628	16379	280220	0.89	4.0E-17	AA643987.1	EST_HUMAN	h196505.x1 NCI_CGAP_Co10 Homo sapiens cDNA clone IMAGE:1058528 3'
9282	22016	35184	1.07	4.0E-17	AW129185.1	EST_HUMAN	x22004.x1 NCI_CGAP_K08 Homo sapiens cDNA clone IMAGE:2818622 3' similar to contains Alu repetitive element; contains MER19.b1 MER19 repetitive element;
11475	24076	37386	2.64	4.0E-17	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12027	24555		1.75	4.0E-17	A073546.1	EST_HUMAN	045504.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1940286 3' similar to TR-Q16530 Q16530 PMS3 MRNA; contains MER10.12 MER10 repetitive element;
1471	14224		1.14	3.0E-17	D14547.1	EST_HUMAN	Human DNA SINE repetitive element
2091	14822	27554	1.85	3.0E-17	AW119123.1	EST_HUMAN	x289008.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2604764 3'
3186	16951		1.18	3.0E-17	P35410	SWISSPROT	MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG
3633	16386	20026	1.34	3.0E-17	BE326522.1	EST_HUMAN	hw05004.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181969 3'
3633	16386	28027	1.34	3.0E-17	BE326522.1	EST_HUMAN	hw05004.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181969 3'
4970	17695		1.89	3.0E-17	BF511266.1	EST_HUMAN	UJ-H-B14-adj-c-06-0-UJ.a1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085043 3'
8166	20860	33992	5.16	3.0E-17	N68451.1	EST_HUMAN	zrl4k02.a1 Soares_fetal_liver spleen NFILS Homo sapiens cDNA clone IMAGE:262491 3' similar to contains PTRY5.13 PTRY5 repetitive element;
9901	22254	35439	6.58	3.0E-17	AB026988.1	NT	Homo sapiens DNA DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
10279	22927	36140	0.64	3.0E-17	BF327012.1	EST_HUMAN	QV3-BN0047-270700-283-a12 BN0047 Homo sapiens cDNA
10279	22927	36141	0.64	3.0E-17	BF327012.1	EST_HUMAN	QV3-BN0047-270700-283-a12 BN0047 Homo sapiens cDNA
11894	24532		3.65	3.0E-17	11417988	NT	Homo sapiens SEC14 (S. cerevisiae) like 2 (SEC14L2), mRNA
12764	25023		1.44	3.0E-17	AV720204.1	EST_HUMAN	AV720204 GLC Homo sapiens cDNA clone GL02IF08 5'
3443	13144	25782	3	2.0E-17	AI270080.1	EST_HUMAN	q183a06.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922 3' similar to contains Alu repetitive element;
344	13144	25782	2.17	2.0E-17	AI270080.1	EST_HUMAN	q183a06.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922 3' similar to contains Alu repetitive element;
967	13733		1.84	2.0E-17	AA722832.1	EST_HUMAN	z981304.x1 Soares_fetal_heart_NBHT19W Homo sapiens cDNA clone IMAGE:369751 3'
2448	15167	27904	2.21	2.0E-17	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2448	15167	27905	2.21	2.0E-17	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2930	19606	28543	6.64	2.0E-17	P12036	SWISSPROT	NEUROFILAMENT TRIPLET H PROTEIN (200 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT HEAVY POLYPEPTIDE) (NF-H)
5282	18087	30745	1.88	2.0E-17	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
5282	18087	30746	1.88	2.0E-17	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
6171	18048		2.04	2.0E-17	AF055099.1	NT	Homo sapiens MHC class I region
6398	19167		1.16	2.0E-17	AL14881.1	EST_HUMAN	DKFZp782J0810.1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp782J0810 5'
7982	20677	33902	1.12	2.0E-17	Q95166	SWISSPROT	OLFATORY RECEPTOR-LIKE PROTEIN OLF3

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8366	21048	34188	1	2.0E-17	AA300940.1	EST_HUMAN	EST13504 Testis tumor Homo sapiens cDNA 5' end similar to similar to glycogenin
8768	22420	35628	2.81	2.0E-17	BE288888.1	EST_HUMAN	000944680F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860815 5'
9804	22455	35657	3.22	2.0E-17	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
9804	22455	35658	3.22	2.0E-17	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
10198	22807	36025	4.82	2.0E-17	D13391.1	NT	Human GYP18 gene for arabinase cytochrome P-450, promoter region (containing two cis-acting transcriptional regulatory elements)
10278	22926	36138	0.73	2.0E-17	P08063	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
10278	22926	36138	0.73	2.0E-17	P08063	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
10307	22954	36169	0.49	2.0E-17	A1798902.1	EST_HUMAN	we04b04.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2348719 3'
10307	22954	36170	0.49	2.0E-17	A1798902.1	EST_HUMAN	we04b04.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2348719 3'
733	19307	28164	3.68	1.0E-17	P08183	SWISSPROT	MULTIDRUG RESISTANCE PROTEIN 1 (P-GLYCOPROTEIN 1)
1703	14446		1.26	1.0E-17	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
1761	14503	27204	2.73	1.0E-17	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2109	14840	27671	2.35	1.0E-17	P02461	SWISSPROT	COLLAGEN ALPHA 1(III) CHAIN PRECURSOR
2335	15059	27795	2.06	1.0E-17	U78410.1	NT	Homo sapiens thrombospondin 2 (THBS2) gene, promoter region and exons 1A and 1B
3554	16309		1.3	1.0E-17	AF224688.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
4118	18659		7.37	1.0E-17	RO6942.1	EST_HUMAN	y30a07.t1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:128388 5'
6366	19136		0.89	1.0E-17	AJ468488.1	EST_HUMAN	he38a05.x1 NCL CGAP_GML1 Homo sapiens cDNA clone IMAGE:2021312 3' similar to contains AU
6655	19320	32327	2.04	1.0E-17	A1185942.1	EST_HUMAN	repetitive element; contains LTRs; L1 LTR8 repetitive element;
6655	19320	32328	2.04	1.0E-17	A1185942.1	EST_HUMAN	qe05b05.x1 Scores_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:1743825 3'
6969	19682	32730	0.93	1.0E-17	Q16831	SWISSPROT	qe05b05.x1 Scores_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:1743825 3'
8460	21182	34324	1.33	1.0E-17	BE068274.1	EST_HUMAN	URIDINE PHOSPHORYLASE (UDRPASE)
9607	22556	35751	0.88	1.0E-17	AW666538.1	EST_HUMAN	QV0-BT0283-101269-072-407 BT0263 Homo sapiens cDNA
11394	24000	37304	2.09	1.0E-17	Q28824	SWISSPROT	QV3-BK0046-220300-128-c10 BK0046 Homo sapiens cDNA
11732	24325	37949	2.47	1.0E-17	AA453947.1	EST_HUMAN	MYOSIN LIGHT CHAIN KINASE, SMOOTH MUSCLE (MLCK) [CONTAINS: TELOKIN]
2474	15192	27632	0.96	9.0E-18	AA174078.1	EST_HUMAN	z44805.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:765498 3' similar to TR:G1283081
9398	22680		3.31	9.0E-18	AI472187.1	EST_HUMAN	G1283081 MARINER TRANSPOSASE
3768	16518	28158	1.52	8.0E-18	4759877	NT	z44805.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:765498 3' similar to TR:G1283081
339	13140	25778	16.92	7.0E-18	AW316978.1	EST_HUMAN	z44805.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:765498 3' similar to TR:G1283081

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
339	13140	25777	16.92	7.0E-18	AW316976.1	EST_HUMAN	xx10604.x1 NCL_CGAP_Pari Homo sapiens cDNA clone IMAGE:2837071 3' similar to gbL20868.005
7343	20024	33100	1.33	7.0E-18	AW587542.1	EST_HUMAN	RIBOSOMAL PROTEIN L4 (HUMAN); RC3-OT10091-170300-011-403 OT10091 Homo sapiens cDNA
12492	13140	25776	3.41	7.0E-18	AW316976.1	EST_HUMAN	xx10604.x1 NCL_CGAP_Pari Homo sapiens cDNA clone IMAGE:2837071 3' similar to gbL20868.005
12492	13140	25777	3.41	7.0E-18	AW316976.1	EST_HUMAN	RIBOSOMAL PROTEIN L4 (HUMAN); xx10604.x1 NCL_CGAP_Pari Homo sapiens cDNA clone IMAGE:2837071 3' similar to gbL20868.005
3289	18050	29699	1	8.0E-18	X71781.2	NT	Rattus norvegicus partial Gdn/Pr-1 gene for gila-derived nestin/protease nexin 1, enhancer region
4698	17432		3.02	8.0E-18	P52181	SWISSPROT	PROTEIN-GLUTAMINE GAMMA-GLUTAMYL TRANSFERASE (TISSUE TRANSGLUTAMINASE) (TGase C) (TGC)
8148	20842		2.84	8.0E-18	11428155	NT	Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC334446), mRNA
8246	20940	34077	0.72	8.0E-18	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11078	23749	37024	1.61	8.0E-18	AL183246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11300	23690	37260	1.74	8.0E-18	X87344.1	NT	H. sapiens DNA, DMB, HLA-Z1, IIP2, LMP2, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
12241	24592	31076	3.29	8.0E-18	U67929.1	NT	Human aciculate hydrates (ACO2) gene, exon 4
1125	13881	29641	21.7	5.0E-18	AJ280214.1	EST_HUMAN	qnt5g11.x1 Soares, placenta, B69weeks, 2N6HP8629W Homo sapiens cDNA clone IMAGE:1863068 3' similar to contains Alu repetitive element
5047	17766	30384	0.98	8.0E-18	D01517.1	EST_HUMAN	HUM411F05B Oriboth human fetal brain polyA+ mRNA (86535) Homo sapiens cDNA clone GEN-411F05
5191	17899	30622	1.2	5.0E-18	AF087613.1	NT	Human endogenous retrovirus HERV-P-T470
8620	23132	34454	6.25	5.0E-18	BE143312.1	EST_HUMAN	MRO-HT01 61-221099-002-008 HT0181 Homo sapiens cDNA
10889	23579	38628	3.47	5.0E-18	10242378	NT	Homo sapiens lymphocyte activation-associated protein (LOC51068), mRNA
10869	23579	38628	3.47	5.0E-18	10242378	NT	Homo sapiens lymphocyte activation-associated protein (LOC51068), mRNA
12368	24770		3.4	5.0E-18	AW587152.1	EST_HUMAN	MRI-SN0035-060400-001-g11 SN0035 Homo sapiens cDNA
12685	24978		4.16	5.0E-18	AV850947.1	EST_HUMAN	AV850947 GLC Homo sapiens cDNA clone GLC03A02 3'
121	12309	25590	1.37	4.0E-18	BE044076.1	EST_HUMAN	xx38904.x1 NCL_CGAP_UH Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29 b3
121	12638	25581	1.37	4.0E-18	BE044076.1	EST_HUMAN	MER29 repetitive element;
1711	14454	27153	1.19	4.0E-18	AA621814.1	EST_HUMAN	xx38904.x1 NCL_CGAP_UH Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29 b3
1882	14619		1.12	4.0E-18	A1738592.1	EST_HUMAN	xx241f1.1 NCL_CGAP_C010 Homo sapiens cDNA clone IMAGE:1144845 3' similar to gbL208328
							KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); w333H08.x1 NCL_CGAP_C010 Homo sapiens cDNA clone IMAGE:2392085 3'

Page 237 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2198	14927	27862	1.33	4.0E-18	Q06430	SWISSPROT	N-ACETYLGLUCOSAMINIDE BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N-ACETYLGLUCOSAMINYLTRANSFERASE) (HBRANCHING ENZYME) (IGNT)
2198	14927	27863	1.33	4.0E-18	Q06430	SWISSPROT	N-ACETYLGLUCOSAMINIDE BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N-ACETYLGLUCOSAMINYLTRANSFERASE) (HBRANCHING ENZYME) (IGNT)
3772	16524	29162	0.88	4.0E-18	A1581586.1	EST_HUMAN	ar33060.x1 Barleseed colon HPLRB7 Homo sapiens cDNA clone IMAGE:2173139 3' similar to contains Alu repetitive element;
5270	18084	30740	2.24	4.0E-18	A1017585.1	EST_HUMAN	cu23400.x1 Sources NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627138 3'
5279	18084	30741	2.24	4.0E-18	A1017585.1	EST_HUMAN	cu23400.x1 Sources NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627138 3'
7745	20441		0.63	4.0E-18	AA746811.1	EST_HUMAN	nc64408.s1 NCL CGAP_A11 Homo sapiens cDNA clone IMAGE:1260698 similar to contains L1.2 L1 repetitive element;
10627	23607	36898	8.78	4.0E-18	AA371807.1	EST_HUMAN	EST83633 Pituitary gland, subtracted (prolactin/growth hormone) II Homo sapiens cDNA 5' end similar to EST containing O family repeat
826	13590	28270	1.08	3.0E-18	AA814198.1	EST_HUMAN	da22111.s1 NCL CGAP_Kid1 Homo sapiens cDNA clone IMAGE:1324581 3' similar to SW:RSS_HUMAN
908	13676	28340	3.47	3.0E-18	BE088634.1	EST_HUMAN	P46782 40S RIBOSOMAL PROTEIN S5;
3931	19381	29322	1.47	3.0E-18	AL163247.2	NT	CM0-510650-210300-298-g07 B10860 Homo sapiens cDNA
6730	19584	32598	5.84	3.0E-18	BE001871.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C047
10844	23528	30769	1.61	3.0E-18	BF218650.1	EST_HUMAN	PMO-BN0081-100300-001-608 BN0081 Homo sapiens cDNA
12487	24852		6.14	3.0E-18	AW022015.1	EST_HUMAN	601884859F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103682 5'
244	13063	25693	4.42	2.0E-18	AW038820.1	EST_HUMAN	d311121.y1 Morton Fetal Cerebellum Homo sapiens cDNA clone IMAGE:2485126 5'
1130	13986		62.93	2.0E-18	BE256067.1	EST_HUMAN	QV1-L10036-150200-070-07 L10036 Homo sapiens cDNA
5326	18126		3.19	2.0E-18	AA888810.1	EST_HUMAN	601114352F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356044 5'
5419	18218	30627	3.68	2.0E-18	D14947.1	NT	O14577 BAC CLONE RG114A08 FROM T031, COMPLETE SEQUENCE;
5419	18218	30628	3.68	2.0E-18	D14947.1	NT	Human DNA, SINE repetitive element
5788	18570		1.68	2.0E-18	BF347228.1	EST_HUMAN	Human DNA, SINE repetitive element
8073	18852	31817	0.77	2.0E-18	X60459.1	NT	602021164F1 NCL CGAP_Brd7 Homo sapiens cDNA clone IMAGE:4156870 5'
8073	18852	31818	0.77	2.0E-18	X60459.1	NT	Human IFNAR gene for Interferon alpha/beta receptor
5185	18922	31815	1.04	2.0E-18	BF352940.1	EST_HUMAN	Human IFNAR gene for Interferon alpha/beta receptor
6228	19000	31877	5.18	2.0E-18	AW665853.1	EST_HUMAN	IL3-HT0819-220700-222-G12 HT0819 Homo sapiens cDNA
7338	20018	33098	0.81	2.0E-18	AA457919.1	EST_HUMAN	h94901.x1 Sources NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2679684 3' similar to contains MER19.12 MER19 repetitive element;
8047	20741	33873	0.47	2.0E-18	BE439524.1	EST_HUMAN	ac0811.1 Strategene fetal retina 837202 Homo sapiens cDNA clone IMAGE:838485 5' similar to TR:061634 061634 POLYPEPTIDE PR77;
							HTM1-190F1 HTM1 Homo sapiens cDNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9947	22595	35798	1.96	2.0E-18	AW151673.1	EST_HUMAN	x67e10.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.12 MER10 repetitive element;
9947	22595	35799	1.88	2.0E-18	AW151673.1	EST_HUMAN	x67e10.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.12 MER10 repetitive element;
10894	23574	36824	2	2.0E-18	AW470791.1	EST_HUMAN	hs333009.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element;
11796	24329	37063	3.91	2.0E-18	AW151299.1	EST_HUMAN	xg47a09.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2630728 3' similar to contains MER6.b2 MER repetitive element;
12174	13886		1.45	2.0E-18	BE256007.1	EST_HUMAN	601114352F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355044 5' ye43g05.L1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:120536 5' similar to contains L1 repetitive element;
4382	17119		1.02	1.0E-18	T95408.1	EST_HUMAN	AV653405 GLC Homo sapiens cDNA clone GLCDKE11 3' Homo sapiens mRNA for Na,K-ATPase alpha-subunit complete cds
5271	18077	30707	3.63	1.0E-18	AV653405.1	EST_HUMAN	Homo sapiens mRNA for Na,K-ATPase alpha-subunit complete cds
5483	18282	31180	2.94	1.0E-18	D00089.1	NT	Homo sapiens mRNA for Na,K-ATPase alpha-subunit complete cds
5483	18282	31181	2.94	1.0E-18	D00089.1	NT	Homo sapiens mRNA for Na,K-ATPase alpha-subunit complete cds
6363	19133	32128	1.53	1.0E-18	AL163260.2	NT	Homo sapiens chromosome 21 segment HS21C080 os69d008.x1 Soares senescent fibroblasts NBHSF Homo sapiens cDNA clone IMAGE:1880563 3' similar to contains L1.L1 L1 repetitive element;
8341	21034	34171	1.43	1.0E-18	AI148288.1	EST_HUMAN	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, Rb-Ret gene, and sodium phosphate transporter (NPT3) gene, complete cds
9799	22450	35863	4.22	1.0E-18	U91328.1	NT	Homo sapiens glycylproline 3 (GPC3) gene, partial cds and flanking repeat regions
12130	24621	31082	4.23	1.0E-18	AF003629.1	NT	z11d08.L1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12 MER19 repetitive element;
532	13316	25952	5.34	9.0E-19	AA281061.1	EST_HUMAN	z11d08.L1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12 MER19 repetitive element;
533	13316	25952	3.24	9.0E-19	AA281061.1	EST_HUMAN	HSC23F051 normalized brain brain cDNA Homo sapiens cDNA clone c-2305
7747	20443		4.47	9.0E-19	F08688.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
8588	21280	34419	2.84	9.0E-19	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
8588	21280	34420	2.84	9.0E-19	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
11072	23742	37018	4.82	9.0E-19	AB033699.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11901	19316	25952	1.88	9.0E-19	AA281061.1	EST_HUMAN	z11d08.L1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12 MER19 repetitive element;
1026	13786		1.26	8.0E-19	AW974902.1	EST_HUMAN	EST387007 MAGE sequences, MAGN Homo sapiens cDNA
4372	17110		1.04	8.0E-19	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
8048	20742	33874	0.92	8.0E-19	BE156830.1	EST_HUMAN	MR0-HT0404-210200-001-g08 HT0404 Homo sapiens cDNA

Page 239 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2242	14870	27708	1.51	7.0E-19	4795139	NT	Homo sapiens DEAD(H) (Asp-Glu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD) (DDX8) mRNA
6364	19134	32129	2.34	7.0E-19	AF002000.1	NT	Rattus norvegicus cpl51 mRNA, partial cds
7189	18866	32869	0.9	7.0E-19	P28444	SWISSPROT	BETA CRYSTALLIN A2
9811	22560	35758	0.51	7.0E-19	A1344951.1	EST_HUMAN	1b01c08.x1 NCL_OGAP_Luz8 Homo sapiens cDNA clone IMAGE:2052302 3'
12036	25397		2.05	7.0E-19	AA705684.1	EST_HUMAN	200301.x1 Scores fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:435145 3'
3781	18513		1.34	6.0E-19	AA852830.1	EST_HUMAN	PMO-CT0248-131089-001-g01 CT0248 Homo sapiens cDNA
4490	17166	29795	1.36	6.0E-19	P34986	SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4430	17165	29786	1.36	6.0E-19	P34986	SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4747	17479		1.3	6.0E-19	AJ271735.1	NT	Homo sapiens Xq pseudocentromeric region; segment 1/2
4967	17692	30301	1.04	6.0E-19	AL120817.1	EST_HUMAN	DKFZ762F192_17 762 (synonym: hma2) Homo sapiens cDNA clone DKFZ762F192 5'
5767	18558	31485	5.36	5.0E-19	Q00193	SWISSPROT	ZP-X) (RC58)
10324	22871	36191	1.03	5.0E-19	AJ297699.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exon 14
11525	24125	37431	7.45	5.0E-19	AW183725.1	EST_HUMAN	x87b02.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2984171 3' similar to contains element MSR1 repetitive element;
541	13324	25058	1.68	4.0E-19	AB007870.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA6501
2688	15398	28136	1.02	4.0E-19	BF597362.1	EST_HUMAN	602130810F1 NH_MGC_95 Homo sapiens cDNA clone IMAGE:4287874 5'
5311	18115	30773	0.97	4.0E-19	AF224869.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) gene, complete cds
3883	16894	28219	1.04	3.0E-19	Q28697	SWISSPROT	BETA-2 ADRENERGIC RECEPTOR
3833	16594	28220	1.04	3.0E-19	Q28697	SWISSPROT	BETA-2 ADRENERGIC RECEPTOR
4253	18094	28622	0.99	3.0E-19	O43900	SWISSPROT	LIM-ONLY PROTEIN 8 (TRIPLE LIM DOMAIN PROTEIN 8)
4253	18094	28623	0.99	3.0E-19	O43900	SWISSPROT	LIM-ONLY PROTEIN 8 (TRIPLE LIM DOMAIN PROTEIN 8)
4413	17150	29777	1.12	3.0E-19	AV708136.1	EST_HUMAN	AV708136 ADC Homo sapiens cDNA clone ADCAMA11 5'
5198	18006		0.64	3.0E-19	AF228467.1	NT	Homo sapiens NPD008 protein (NPD008) mRNA, complete cds
7283	19696		2.79	3.0E-19	11432214	NT	Homo sapiens similar to aldo-keto reductase family 1, member B11 (aldose reductase-like) (H. sapiens) (LOC63222), mRNA
9359	20430	33548	1.15	3.0E-19	X89685.1	NT	Mus musculus mRNA for TPOR33 protein
12284	24709		23.34	3.0E-19	AF166520.1	NT	Homo sapiens rhoboln1 protein (PBI) mRNA, complete cds
2595	15279	28017	21.33	2.0E-19	AF163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4411	17148		1.03	2.0E-19	A1811783.1	EST_HUMAN	q991402.x1 NCL_OGAP_Ki45 Homo sapiens cDNA clone IMAGE:1915588 3' similar to TR:Q86388 Q86386
5963	18745	31709	0.57	2.0E-19	AV731382.1	EST_HUMAN	POLYEN V GENE ; AV731382 HTE Homo sapiens cDNA clone HTFAZC06 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7238	19023	32908	0.93	2.0E-19	7657286	NT	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA
8228	20922	34061	8.08	2.0E-19	AA012854.1	EST_HUMAN	2544-608.J1 Soares retina N264HR Homo sapiens cDNA clone IMAGE:360880 5'
9809	22400	35906	0.88	2.0E-19	Q95155	SWISSPROT	OLFATORY RECEPTOR-LIKE PROTEIN OLF2
11820	24413	37760	1.33	2.0E-19	BF330867.1	EST_HUMAN	RC3-BT0333-250800-114-04 BT0333 Homo sapiens cDNA
11828	24413	37751	1.33	2.0E-19	BF330867.1	EST_HUMAN	RC3-BT0333-250800-114-04 BT0333 Homo sapiens cDNA
496	13255		1.87	1.0E-19	BE408811.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
2161	14891	27026	1.58	1.0E-19	H80795.1	EST_HUMAN	y79g07.1 Soares adult brain N264HB55Y Homo sapiens cDNA clone IMAGE:184188 5' similar to contains
2723	15430		2.37	1.0E-19	D38044.1	NT	MER10 repetitive element;
2851	15619		4.95	1.0E-19	4758977	NT	Human gene for Ah-receptor, exon 7-9
3390	16164	28906	1.2	1.0E-19	AA634607.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNST1) mRNA
5983	18764	31728	2.38	1.0E-19	U12168.1	EST_HUMAN	949b12.s1 Soares foetus NHT Homo sapiens cDNA clone IMAGE:1393531 3' similar to contains MER37.2
6114	25419		0.83	1.0E-19	AA595527.1	EST_HUMAN	MER37 repetitive element;
7528	20196	33293	0.86	1.0E-19	U08813.1	NT	Oryctolagus cuniculus scilumidicarbonylate cotransporter mRNA, partial cds
7528	20196	33294	0.86	1.0E-19	U08813.1	NT	Oryctolagus cuniculus Na ⁺ /glucose cotransporter-related protein mRNA, complete cds
7696	25118		0.83	1.0E-19	AF200719.1	NT	Oryctolagus cuniculus Na ⁺ /glucose cotransporter-related protein mRNA, complete cds
8348	21042	34179	1.75	1.0E-19	M64657.1	EST_HUMAN	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
8840	21832		2.84	1.0E-19	T66620.1	EST_HUMAN	Rabbit phosphorylase kinase beta subunit mRNA, complete cds
9848	22301		0.46	1.0E-19	U60922.1	NT	y72602.1 Soares fetal liver spleen NFLS Homo sapiens cDNA clone IMAGE:123249 5' similar to contains
10087	22735	35960	23.03	1.0E-19	AW812250.1	EST_HUMAN	OFR repetitive element;
10097	22745	35960	1.46	1.0E-19	N44631.1	EST_HUMAN	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
11790	24351	37983	1.55	1.0E-19	U63163.1	NT	RC0-S10174-191099-031-505 S10174 Homo sapiens cDNA
6549	16314	32319	2.88	8.0E-20	7657286	NT	y71e08.1 Soares melanocyte ZNF181 Homo sapiens cDNA clone IMAGE:272872 5'
6549	16314	32320	2.86	8.0E-20	7657286	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1
7418	20065	33181	1.34	8.0E-20	A121371.1	EST_HUMAN	(IMAGE-B1) genes, complete cds
7418	20065	33181	1.34	8.0E-20	A121371.1	EST_HUMAN	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA
3270	16031	28982	1.41	7.0E-20	BF326456.1	EST_HUMAN	q88f09.s1 Soares NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1842089 3'
6898	17972	30529	6.29	7.0E-20	AL138120.1	EST_HUMAN	q88f09.s1 Soares NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1842089 3'
8394	21087	34222	12.46	7.0E-20	AA5957857.1	EST_HUMAN	PM4-AN0096-050900-003-404 AN0096 Homo sapiens cDNA
							DKFZp447D082.1 547 (synonym: hbr1) Homo sapiens cDNA clone DKFZp447D082.5
							n4604.s1 NCI CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER28.b2
							MER28 repetitive element;

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8394	21087	34223	12.48	7.0E-20	AA557657.1	EST_HUMAN	rh4604.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2 MER29 repetitive element;
11714	24308		1.06	7.0E-20	6912633	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
3543	18296	28949	3.02	6.0E-20	P38188	SWISSPROT	ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY
4239	18980	29805	3.33	6.0E-20	BE622434.1	EST_HUMAN	601441231F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916231 5'
4568	17201		1.18	5.0E-20	AV726123	EST_HUMAN	AV726123 HTG Homo sapiens cDNA clone HTG07A01 5'
7015	19707	32763	1.07	5.0E-20	AF075301.1	EST_HUMAN	AF075301 Human fetal liver cDNA library Homo sapiens cDNA clone HA0250 contains MER30.t1 MER30 repetitive element;
7846	20541	33888	5.28	5.0E-20	W90526.1	EST_HUMAN	z179d08.s1 Scores_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to contains MER30.t1 MER30 repetitive element;
7849	20541	33889	5.28	5.0E-20	W90525.1	EST_HUMAN	z179d08.s1 Scores_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to contains MER30.t1 MER30 repetitive element;
8002	20697	33825	0.7	5.0E-20	BE165980.1	EST_HUMAN	MR3-H10487-150200-113-g01 HT0487 Homo sapiens cDNA
8734	21426	34672	2.54	5.0E-20	AB028174.1	NT	Mus musculus IMAN-g mRNA, complete cds
8734	21426	34573	2.54	5.0E-20	AB028174.1	NT	Mus musculus IMAN-g mRNA, complete cds
9345	20416		0.94	5.0E-20	O60809	SWISSPROT	HYPOTHETICAL PROTEIN DJ845024.1
1616	14363	27054	1.34	4.0E-20	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
5502	18356		0.8	4.0E-20	O69880	SWISSPROT	HISTONE H2B C (H2B/C)
7826	20521		5.15	4.0E-20	AI874952.1	EST_HUMAN	z29-g03.x1 NCI_CGAP_Ov65 Homo sapiens cDNA clone IMAGE:2283398 3'
10396	23042	38259	1.33	4.0E-20	AW637468.1	EST_HUMAN	QV3-DT0043-090200-060-c04 DT0043 Homo sapiens cDNA
2185	14865	27585	1.02	3.0E-20	U03888.1	NT	Human BXP21 gene
4186	18826	29557	1.29	3.0E-20	P23273	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN 114
4582	17317	28944	1.05	3.0E-20	AA037616.1	EST_HUMAN	z436r12.s1 Scores_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:484895 3' similar to contains L1.18 L1 repetitive element;
8833	21526		2.95	3.0E-20	D14547.1	NT	Human DNA, SINE repetitive element
10210	22867	36078	0.83	3.0E-20	BF185284.1	EST_HUMAN	601843561F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4084343 5'
10591	23257		1.87	3.0E-20	P11369	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
11466	24097	37408	1.5	3.0E-20	A284244.1	EST_HUMAN	q70402.x1 NCI_CGAP_K48 Homo sapiens cDNA clone IMAGE:1864803 3' similar to contains Alu repetitive element;
11466	24097	37409	1.5	3.0E-20	A284244.1	EST_HUMAN	q70402.x1 NCI_CGAP_K48 Homo sapiens cDNA clone IMAGE:1864803 3' similar to contains Alu repetitive element;
12051	24580	31118	2.95	3.0E-20	BE884422.1	EST_HUMAN	601514180F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3915522 5'
811	19582		3.12	2.0E-20	AW303898.1	EST_HUMAN	z74610.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE P67461 40S RIBOSOMAL PROTEIN S5.;

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1086	13547	26505	3.37	2.0E-20	AA516335.1	EST_HUMAN	ng89103.s1 NCI CGAP Lip2 Homo sapiens cDNA clone IMAGE:940087 similar to TR-G1224066
1088	13547	26506	3.37	2.0E-20	AA516335.1	EST_HUMAN	G1224066 ORF2: FUNCTION UNKNOWN.;
2820	13582		2.38	2.0E-20	AW303898.1	EST_HUMAN	ng89103.s1 NCI CGAP Lip2 Homo sapiens cDNA clone IMAGE:940087 similar to TR-G1224066
4893	17620	30238	4.97	2.0E-20	Q28983	SWISSPROT	zr24610 NCI CGAP Lip2 Homo sapiens cDNA clone IMAGE:940087 similar to TR-G1224066
4893	17620	30239	4.97	2.0E-20	Q28983	SWISSPROT	zr24610 NCI CGAP Lip2 Homo sapiens cDNA clone IMAGE:940087 similar to TR-G1224066
5037	17786		5.98	2.0E-20	5174538	NT	p97481 40S RIBOSOMAL PROTEIN S6.;
8017	20712	33843	0.81	2.0E-20	AA309457.1	EST_HUMAN	ZONADHESIN PRECURSOR
9089	21778	34842	8.6	2.0E-20	D10083.1	NT	Homo sapiens insulin dehydrogenase 1, NAD (soluble) (MDH1) mRNA
9089	21778	34843	8.6	2.0E-20	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
12426	26141	30685	2.03	2.0E-20	H65371.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
12815	26057		1.39	2.0E-20	11437152	NT	CHR220310 Chromosome 22 exon Homo sapiens cDNA clone G22_391.5'
2007	15525	27488	3.71	1.0E-20	AA281081.1	EST_HUMAN	Homo sapiens heparin-binding growth factor binding protein (HBP17), mRNA
4406	17143	29772	1	1.0E-20	BF116158.1	EST_HUMAN	Z11d08.1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER1612
6794	19538	32586	0.75	1.0E-20	AF049567.1	EST_HUMAN	MER19 repetitive element;
9061	21750	34809	2.04	1.0E-20	11418461	NT	hr4606.x1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:3135153 3' similar to contains L1.12 L1
11541	24141	37450	2.62	1.0E-20	AF223391.1	NT	repetitive element;
12171	24681		1.73	1.0E-20	AA420483.1	EST_HUMAN	AF049567 Human activated dendritic cell mRNA Homo sapiens cDNA clone GA06
2813	19579		0.98	9.0E-21	AJ003514.1	EST_HUMAN	Homo sapiens Autocond Highly Conserved Protein (AHCPS), mRNA
11804	24469		2.52	9.0E-21	AW506189.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-40, and partial cds, alternatively spliced
8711	21403		2.15	8.0E-21	AW674891.1	EST_HUMAN	nc00108.1 NCI CGAP P11 Homo sapiens cDNA clone IMAGE:746694 similar to contains L1.13 L1
11528	24126	37432	3.52	8.0E-21	AA809411.1	EST_HUMAN	repetitive element;
12064	24579		4.49	8.0E-21	O21330	SWISSPROT	AJ003514 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPI121-3.121
2061	14793	27518	1.62	7.0E-21	P15800	SWISSPROT	RC3-NN0068-090500-021-403 NN0068 Homo sapiens cDNA
2061	14793	27519	1.62	7.0E-21	P15800	SWISSPROT	b550402.Y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:288471.4 5' similar to SW:NIAM_HUMAN
3689	16442	28083	0.69	7.0E-21	AL163300.2	NT	O68109 NADH-UBIQUINONE OXIDOREDUCTASE ASH1 SUBUNIT PRECURSOR.;
4228	19669		5.98	7.0E-21	AA049502.1	EST_HUMAN	cb7103.s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1336835 3'

Page 243 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6340	19110	32100	0.79	7.0E-21	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
8287	20881	34121	1.53	7.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
8576	21268	34407	10.76	7.0E-21	D147718.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
10013	22061	35877	0.86	7.0E-21	AW856922.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
10694	23286	36525	2.19	7.0E-21	AA723404.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
11234	23697	37184	1.75	7.0E-21	7706968	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
4083	18827	28454	0.83	6.0E-21	BE408611.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
9034	21724	26334	0.6	6.0E-21	BE162737.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
903	13670	26334	0.7	5.0E-21	5602031	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
4330	17069	29807	2.91	5.0E-21	BE088830.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
4749	17481	30112	5.58	5.0E-21	4885474	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6695	19592		0.9	5.0E-21	AW440984.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
8617	19654	32700	0.88	5.0E-21	BE86505.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
10474	23120	36349	0.44	5.0E-21	Q91690	SWISSPROT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
10474	23120	36350	0.44	5.0E-21	Q91690	SWISSPROT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
11868	24527		2.83	5.0E-21	AA363574.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
11727	14469	27168	1.81	4.0E-21	AA070713.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6772	16516	32544	3.27	4.0E-21	AB018576.1	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
9680	22532	35527	0.83	4.0E-21	U91328.1	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
9705	22562	35562	0.7	4.0E-21	AL163202.2	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
1829	14568	27280	0.94	3.0E-21	AA218891.1	EST_HUMAN	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
2272	14568	27736	1.24	3.0E-21	AL163201.2	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
3078	15943	28485	4.31	3.0E-21	AJ007973.1	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
5412	18211	30919	0.68	3.0E-21	AJ277557.1	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
5412	18211	30920	0.86	3.0E-21	AJ277557.1	NT	Human dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
5652	18447		0.55	3.0E-21	AV681044.1	EST_HUMAN	AV681044 GIC Homo sapiens cDNA clone GLOGA10 3'
6096	18864		2.3	3.0E-21	BF184739.1	EST_HUMAN	BF1844468F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4004945 5'
6069	19451	32469	7.69	3.0E-21	BF381063.1	EST_HUMAN	RC1-1070083-100500-019-g08 OT0083 Homo sapiens cDNA
9592	22245	35429	3.5249	3.0E-21	AV597700.1	EST_HUMAN	GM1-NN00063-280400-203-k08 NN0063 Homo sapiens cDNA
12533	28327	30714	1.15	3.0E-21	AL103213.2	NT	Homo sapiens chromosome 21 segment HS21C013
141	12958		17.18	2.0E-21	BE103247.1	EST_HUMAN	QV3-HT0458-170200-060-g12 HT0458 Homo sapiens cDNA
914	13681	28342	1.85	2.0E-21	AB007857.2	NT	Homo sapiens mRNA for KIAA0397 protein, partial cds
914	13681	28343	1.85	2.0E-21	AB007857.2	NT	Homo sapiens mRNA for KIAA0397 protein, partial cds
1192	13944		2.75	2.0E-21	BE084410.1	EST_HUMAN	RC4-BT0311-141199-011-h08 BT0311 Homo sapiens cDNA
2844	15554	28098	1.98	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2844	15554	28099	1.98	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
5396	18106	30690	1.64	2.0E-21	A824892.1	EST_HUMAN	ts30R03.x1 NCI CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2230109 3' similar to TR:Q69854 Q69854
5489	18258	31184	0.68	2.0E-21	AA027211.1	EST_HUMAN	HYPOTHETICAL 61.1 KD PROTEIN ;
5489	18258	31185	0.68	2.0E-21	AA027211.1	EST_HUMAN	z997/a12.r1 Scores: total heart_NH-H19W Homo sapiens cDNA clone IMAGE:366910 5'
8170	20864	33098	0.5	2.0E-21	AJ010770.1	NT	z997/a12.r1 Scores: total heart_NH-H19W Homo sapiens cDNA clone IMAGE:366910 5'
8281	20865	34094	6.16	2.0E-21	BE141785.1	EST_HUMAN	Homo sapiens hypoxanthine gene, exon 1-50
8722	21414	34557	3.74	2.0E-21	AU136779.1	EST_HUMAN	QVQ-HT0103-081199-050-g11 HT0103 Homo sapiens cDNA
10891	23065		1.55	2.0E-21	BE380127.1	EST_HUMAN	AU136779 PLAGE1 Homo sapiens cDNA clone PLACE1005052 5'
11289	23060	37246	1.3	2.0E-21	BE973829.1	EST_HUMAN	h09g01.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146266 3' similar to contains MER28 b3
11289	23060	37247	1.3	2.0E-21	BE973829.1	EST_HUMAN	MER28 repetitive element ;
12272	24712		9.87	2.0E-21	AF176815.1	NT	601680636F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
1233	13982	28952	1.6	1.0E-21	AA557657.1	EST_HUMAN	601680636F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
1381	14128		2.82	1.0E-21	AB011284.1	EST_HUMAN	Homo sapiens putative 8-hydroxyquinoline DNA glycosylase gene, complete cds
6396	19165		2.74	1.0E-21	AL078752.1	EST_HUMAN	m46c04.x1 NCI CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER28 b2
7092	19781	32847	6.6	1.0E-21	A1223104.1	EST_HUMAN	MER28 repetitive element ;
10494	23130		1.07	1.0E-21	5730038	NT	af68412.x1 Barstead cdn HPLRB7 Homo sapiens cDNA clone IMAGE:216243 3'
4377	17114	28747	6.65	9.0E-22	A1702438.1	EST_HUMAN	DKFZp394H0830_r1 434 (synonym: h083) Homo sapiens cDNA clone DKFZp394H0830 5'
8502	21194	34336	1.27	9.0E-22	AL183201.2	NT	9q47q03.x1 Scores: testis_NHT Homo sapiens cDNA clone IMAGE:1838336 3' similar to gb:MB4241 QM
8502	21194	34337	1.27	9.0E-22	AL183201.2	NT	PROTEIN (HUMAN);
							Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
							ts24a03.x1 NCI CGAP_KH11 Homo sapiens cDNA clone IMAGE:2286204 3' similar to TR:Q15408 Q15408
							NEUTRAL-PROTEASE LARGE SUBUNIT ;
							Homo sapiens chromosome 21 segment HS21C001
							Homo sapiens chromosome 21 segment HS21C001

Page 245 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10991	23382	36022	2.63	9.0E-22	AV781874.1	EST_HUMAN	AV781874 MDS Homo sapiens cDNA clone MDSO005 5'
11707	24302	37627	1.34	9.0E-22	AU140358.1	EST_HUMAN	AU140358 PLACE2 Homo sapiens cDNA clone PLACE2000394 5'
929	13969		5.55	8.0E-22	BE144748.1	EST_HUMAN	CMO-HT0179-281058-078-H05 HT0179 Homo sapiens cDNA
7787	20492		3.72	8.0E-22	AA046502.1	EST_HUMAN	2687400.r1 Sources_pregnant_uterus_NBHPU Homo sapiens cDNA clone IMAGE:487858 5'
650	13428	28067	5.92	7.0E-22	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
4250	16901	29816	2.21	7.0E-22	Q61838	SWISSPROT	ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA2M)
4977	17700	30307	0.89	7.0E-22	AB008881.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
8900	21282		1.38	7.0E-22	AF151054.1	NT	Homo sapiens HSPC220 mRNA, complete cds
8731	21423	34568	3.55	7.0E-22	M78590.1	EST_HUMAN	EST100738 Fetal brain, Striatum (cd0803209) Homo sapiens cDNA clone HFBCE07
8902	22155	35335	2.04	7.0E-22	AF009600.1	NT	Homo sapiens T cell receptor beta locus, TORB7S3A2 to TORB7S3A2 region
4038	16783	28413	0.98	6.0E-22	AA065040.1	EST_HUMAN	zu95410.r1 Sources_testis_NHT Homo sapiens cDNA clone IMAGE:742887 5'
8140	20834		1.33	6.0E-22	AW029123.1	EST_HUMAN	w05907.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2542812 3'
6424	19182	32188	3.78	5.0E-22	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10217	22665	36077	7.83	5.0E-22	U86822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12499	24954		2.22	5.0E-22	BF476511.1	EST_HUMAN	neaz7604.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3258888 3' similar to contains A11
3627	16360		0.85	4.0E-22	AJ271735.1	NT	repetitive element
8004	20669	33827	0.46	4.0E-22	AV703223.1	EST_HUMAN	Homo sapiens Xq pseudobacterial region; segment 1/2
8312	26428		3.11	4.0E-22	AL163302.2	NT	AV703223 ADB Homo sapiens cDNA clone ADBAUE12 5'
10623	23316	36556	2.47	4.0E-22	BF218030.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C002
12657	24957		2.06	4.0E-22	AL163209.2	NT	601882819.r1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4095434 6'
939	13706		1.58	3.0E-22	AI468679.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C009
2576	15298	28026	0.92	3.0E-22	AB59038.1	EST_HUMAN	hm14h10.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:2156611 3' similar to gb:U10563 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN) contains L1.11 L1 repetitive element
3652	16415		1.46	3.0E-22	D14718.1	NT	w6804.x1 NCI_CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2426639 3' similar to SW-RL21_HUMAN
4748	17480	30111	2.6	3.0E-22	A050126.1	EST_HUMAN	P49778 60S RIBOSOMAL PROTEIN L21.;
8120	20823		0.8	3.0E-22	BE156813.1	EST_HUMAN	Human chromosome protein HMG1 related gene
8134	20828	33693	2.46	3.0E-22	BE089841.1	EST_HUMAN	q528207.x1 Sources_pregnant_uterus_NBHPU Homo sapiens cDNA clone IMAGE:1097580 3' similar to contains MER12.12 MER12 repetitive element
8258	20652	34088	0.97	3.0E-22	X60980.1	NT	QVQ-HT0368-060200-060-412 HT0368 Homo sapiens cDNA
8258	20652	34089	0.97	3.0E-22	X60980.1	NT	RC9-RV207-150300-021-HT0 B17077 Homo sapiens cDNA
1946	14681		2.29	2.0E-22	N24942.1	EST_HUMAN	R.natius RV2G8 mRNA for a potential ligand-binding protein
2526	15242	27981	2.15	2.0E-22	P24616	SWISSPROT	R.natius RV2G8 mRNA for a potential ligand-binding protein
							YK73405.at Sources_melanocyte_ZNBM-Homo sapiens cDNA clone IMAGE:267369 3'
							IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3414	16172	28821	4.41	2.0E-22	8394043	NT	Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA
4200	18841	26567	1.17	2.0E-22	AW817794.1	EST_HUMAN	PM1-ST0282-28189-001-412 ST0282 Homo sapiens cDNA
5761	28075	31476	1.18	2.0E-22	W38456.1	EST_HUMAN	z020101.1 Soares, senescent, fibroblasts, NIH/SEF Homo sapiens cDNA clone IMAGE:322873 5' similar to
6084	18862	31828	3.58	2.0E-22	BF092116.1	EST_HUMAN	dbx72308 MONOCYTE CHEMOTACTIC PROTEIN 9 PRECURSOR (HUMAN);
9802	22285	35440	1.53	2.0E-22	AF276522.1	EST_HUMAN	RC3-TN0076-15000-028-R12 TN0076 Homo sapiens cDNA
9896	22347	35540	0.60	2.0E-22	AA715315.1	EST_HUMAN	q78r06.x1 Soares, NIH/MPu S1 Homo sapiens cDNA clone IMAGE:187828 3' similar to contains
9898	22347	35541	0.89	2.0E-22	AA715315.1	EST_HUMAN	MER28.13 MER28 repetitive element;
11761	24352	37694	1.68	2.0E-22	AW418960.1	EST_HUMAN	nc04ht1.1 NCI CGAP P22 Homo sapiens cDNA clone IMAGE:1215289 3'
11872	24946	30683	3.71	2.0E-22	AL163280.2	NT	nc04ht1.1 NCI CGAP P22 Homo sapiens cDNA clone IMAGE:1215289 3'
1871	14609	27320	1.79	1.0E-22	AW595517.1	EST_HUMAN	nc2404.x1 NCI CGAP Kd12 Homo sapiens cDNA clone IMAGE:287465 3'
2888	15302	28038	1.37	1.0E-22	U50871.1	NT	Homo sapiens chromosome 21 segment HS21C080
3406	16163	28814	1.37	1.0E-22	D14547.1	NT	PMA-SN0020-010400-008-H02 SN0020 Homo sapiens cDNA
7641	20306	33415	0.89	1.0E-22	BE084667.1	EST_HUMAN	Human familial Alzheimer's disease (STM2) gene, complete cds
10451	23097	36328	0.79	1.0E-22	A396436.1	EST_HUMAN	Human DNA, SINE repetitive element
10451	23097	36329	0.79	1.0E-22	A396436.1	EST_HUMAN	MKD-BT0886-220200-002-H07 BT0659 Homo sapiens cDNA
12704	24684	39577	5.89	9.0E-23	AW802801.1	EST_HUMAN	q20607.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2020681 3' similar to contains MER28.b2
3357	16312	28959	0.79	8.0E-23	AF196349.1	NT	MER28 repetitive element;
3305	16065	30695	2.55	7.0E-23	AV047246.1	EST_HUMAN	q20607.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2020681 3' similar to contains MER28.b2
10088	23642	36985	4.16	7.0E-23	5031662	NT	Gallus gallus Dact12 protein (Dact12) mRNA, complete cds
3427	16184	28814	1.72	6.0E-23	AF196333.1	NT	AV847248 GLC Homo sapiens cDNA clone GLCAG007 3'
4235	16076	28601	1.59	6.0E-23	AL163249.2	NT	Homo sapiens Naf53 (D. melanogaster)-like protein (NOT68L) mRNA
12005	24540	31105	1.5	6.0E-23	AF224699.1	NT	Rattus norvegicus RIMT6 (RimT6) mRNA, complete cds
12005	24540	31106	1.5	6.0E-23	AF224699.1	NT	Homo sapiens chromosome 21 segment HS21C049
12182	24663	31067	3.28	6.0E-23	AI209130.1	EST_HUMAN	Homo sapiens mennoisides, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
5358	18160	30944	4.09	6.0E-23	U62871.2	NT	Homo sapiens mennoisides, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3

Page 247 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6146	25086	31863	3.93	5.0E-23	AF170818.1	NT	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
7337	25089	31863	3.37	5.0E-23	AF170818.1	NT	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
6347	19117	32106	1.34	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
6347	19117	32107	1.34	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
7738	20434	33558	4.1	3.0E-23	AA130165.1	EST_HUMAN	235g06.r1 Scores: pregnant uterus NHPU Homo sapiens cDNA clone IMAGE:303968 5' similar to contains MER29.12 MER29 repetitive element
9148	21879	35045	2.96	3.0E-23	Z70864.1	NT	Human endogenous retroviral element HC2
9148	21879	35048	2.96	3.0E-23	Z70864.1	NT	Human endogenous retroviral element HC2
10215	22633	28633	1.18	3.0E-23	AI087627.1	EST_HUMAN	RC3-NN0068-270400-011-K01 NN0068 Homo sapiens cDNA
651	13429	28068	4.25	2.0E-23	AI280680.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
1120	15520	28243	3.87	2.0E-23	M55270.1	NT	Human matrix Gla protein (MGP) gene, complete cds
2798	15503	28243	1.98	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2798	15503	28244	1.98	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3394	16123		1.46	2.0E-23	AB01458.1	EST_HUMAN	q37311.x1 NCL_GCAP_P28 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TR-Q15337 Q15337 contains MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE
3705	16459		3.35	2.0E-23	BE165080.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3958	16707	28348	3.66	2.0E-23	H59931.1	EST_HUMAN	Yr18a02.r1 Scores: fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:205418 5'
3958	16707	28347	3.95	2.0E-23	H59931.1	EST_HUMAN	Yr18a02.r1 Scores: fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:205418 5'
							Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
7772	20468		4.3	2.0E-23	AF280107.1	NT	Homo sapiens chromosome 21 segment HS21C103
8742	21434	34579	1.21	2.0E-23	AL163303.2	NT	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
11891	24530		2.46	2.0E-23	M22668.1	NT	Homo sapiens T cell receptor beta locus, TORB7/TS3A2 to TORB7/TS2 region
12508	24960		2.87	2.0E-23	AF009660.1	NT	Homo sapiens chromosome 21 segment HS21C052
4492	17228	28657	1.1	1.0E-23	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C010
4714	17448		5.56	1.0E-23	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
8620	16392		3.28	1.0E-23	BE378471.1	EST_HUMAN	30123845F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3008853 5'
8254	20948	34085	4.6	1.0E-23	AA448097.1	EST_HUMAN	Zw62506.r1 Scores: testis NIH Homo sapiens cDNA clone IMAGE:782998 5' similar to contains PTR6.12 PTR6 repetitive element
10570	23266	36603	2.05	1.0E-23	BE409043.1	EST_HUMAN	301301762F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3630254 5'
10570	23266	36604	2.05	1.0E-23	BE409043.1	EST_HUMAN	301301762F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3630254 5'
							ab15603.s1 Striatum fetal retina 03/7202 Homo sapiens cDNA clone IMAGE:852768 3' similar to
539	13322		1.84	9.0E-24	AA693213.1	EST_HUMAN	TR-E18822 E18822 CA PROTEIN
6337	18127	32121	1.93	8.0E-24	11442027	NT	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA

Page 248 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3853	16033		1.49	7.0E-24	AW037954.1	EST_HUMAN	QVQ-DT0047-170200-122-008 DT0047 Homo sapiens cDNA
5087	17805		0.95	7.0E-24	AL039488.1	EST_HUMAN	DKFZp334A2311.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp334A2311.5
10538	23233		1.33	7.0E-24	AW030317.1	EST_HUMAN	xv1703.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405.3 similar to contains Alu repetitive element; contains MER19.12 MER19 repetitive element;
690	13465		2.72	6.0E-24	AB001421.1	NT	Micacia fucata mRNA for Testis-Specific Protein Y (TSPY), complete cds
818	13590	26259	11.74	6.0E-24	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C048
3953	16703	28042	7.9	5.0E-24	AJ228045.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
7657	20321	33430	0.58	5.0E-24	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11596	24194	37513	1.45	5.0E-24	AW814229.1	EST_HUMAN	h24403.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910413.3 similar to TR-094861
6940	18028	31553	3.85	4.0E-24	AA594178.1	EST_HUMAN	C94851 KIAA0760 PROTEIN ;
8531	21273	34411	1.35	4.0E-24	AA594178.1	EST_HUMAN	m31105.x1 NCL CGAP Gas1 Homo sapiens cDNA clone IMAGE:1085529.3 similar to SW:POL_MLVK
11133	23801	37078	1.95	4.0E-24	BE544822.1	EST_HUMAN	P31795 POL POLYPROTEIN ;
12361	24765	31052	4.89	4.0E-24	AB028016.1	EST_HUMAN	RC3-ST0197-130100-014-R03 ST0197 Homo sapiens cDNA
12595	24951	30986	1.77	4.0E-24	11418318	NT	901078912F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3494488.5
8322	21015		2.85	3.0E-24	AW614871.1	EST_HUMAN	Homo sapiens mRNA for KIAA1093 protein, partial cds
8377	21070		1.57	3.0E-24	AW602076.1	EST_HUMAN	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
9385	21940	35114	4.33	3.0E-24	AL163252.2	NT	h98008.x1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2967950.3 similar to contains MER29.b2 MER29 repetitive element ;
12438	24808	31045	1.41	3.0E-24	BF112762.1	EST_HUMAN	EST374149 IMAGE transcript, MAGG Homo sapiens cDNA
2346	15068	27800	2.72	2.0E-24	AA167539.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C052
3779	16531		1.01	2.0E-24	AF088824.1	EST_HUMAN	601810440F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4053398.5
7374	20054	33135	0.81	2.0E-24	AF088824.1	EST_HUMAN	zp1109.1 Strategene fetal retina 037202 Homo sapiens cDNA clone IMAGE:309161.5
7379	20059	33138	0.85	2.0E-24	AJ003533.1	EST_HUMAN	RC3-NN00089-090500-021-503 NN00089 Homo sapiens cDNA
8639	21331	34476	3.28	2.0E-24	AL118758.1	EST_HUMAN	Mus musculus rho/ra-interacting citron kinase (Crik) mRNA, complete cds
8676	21398		0.98	2.0E-24	H09214.1	EST_HUMAN	AJ003538 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIp12-5H13
9754	22405	35611	0.94	2.0E-24	A621789.1	EST_HUMAN	DKFZp781L1712.1 781 (synonym: hary2) Homo sapiens cDNA clone DKFZp781L1712.5
9754	22405	35612	0.94	2.0E-24	A621789.1	EST_HUMAN	W62039.J1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212729.5 similar to contains MER28 repetitive element ;
11825	24409	37744	1.31	2.0E-24	AW868552.1	EST_HUMAN	W77409.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008.3
11825	24409	37745	1.31	2.0E-24	AW868552.1	EST_HUMAN	W77409.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008.3
12281	25377		7.44	2.0E-24	M28877.1	NT	MR1-SN0063-040500-001-003 SN0063 Homo sapiens cDNA
							MR1-SN0063-040500-001-003 SN0063 Homo sapiens cDNA
							Human O family dispersed repeat element

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1681	14435	27131	2.69	1.0E-24	7706340	NT	Homo sapiens C91-127 protein (LOC51646), mRNA
2679	15388		1.63	1.0E-24	AW820194.1	EST_HUMAN	QV0-ST0294-100400-185-c10 ST0294 Homo sapiens cDNA
3020	15786	28433	1.40	1.0E-24	D68423.1	NT	Mus musculus mRNA for HGT keratin, partial cds
4237	16978		1.71	1.0E-24	AF143313.1	NT	Homo sapiens PTEN (PTEN) gene, exon 2
7447	20123	33214	4.32	1.0E-24	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
7850	20206	33404	0.81	1.0E-24	BE144628.1	EST_HUMAN	MR0-HT0166-271199-005-409 HT0166 Homo sapiens cDNA
7845	20540	33067	2.09	1.0E-24	AW801184.1	EST_HUMAN	GMO-NN1010-130300-281-407 NN1010 Homo sapiens cDNA
11699	24294	37619	1.31	9.0E-25	7706707	NT	Homo sapiens putative secreted protein (SIG11), mRNA
4689	17687	30275	2.33	7.0E-25	AA489444.1	EST_HUMAN	nc22a10.s1 NCL CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2
8117	20811	33946	6.50	7.0E-25	AA489448.1	EST_HUMAN	MER1 repetitive element ; nc09a08.s1 NCL CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR repetitive element ;
11701	24296	37922	3.28	7.0E-25	AA583540.1	EST_HUMAN	nc25r08.s1 NCL CGAP_Pt1 Homo sapiens cDNA clone IMAGE:914843 similar to SW.R14A_YEAST
6893	17698		4.9	6.0E-25	W87823.1	EST_HUMAN	P99105 PROBABLE 66S RIBOSOMAL PROTEIN L14EA ;
7622	20288	33397	8.34	8.0E-25	7305380	NT	zh65h07.r1 Soares fetal liver spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:419899 5'
1647	14363	27083	1.18	6.0E-25	AW860271.1	EST_HUMAN	IL3-CT0219-161199-031-D04 CT0219 Homo sapiens cDNA
11286	23947	37242	2.44	5.0E-25	AW979107.1	EST_HUMAN	ys58f04.r1 Soares fetal liver spleen, INFLS Homo sapiens cDNA
1426	14176	26861	2.25	4.0E-25	T98107.1	EST_HUMAN	ys58f04.r1 Soares fetal liver spleen, INFLS Homo sapiens cDNA clone IMAGE:121783 5'
3397	16155		3.04	4.0E-25	AW887871.1	EST_HUMAN	PM9-OT0095-260200-401-g07 OT0093 Homo sapiens cDNA
4282	17021		2.93	4.0E-25	BE170667.1	EST_HUMAN	QV3-HT0543-140400-149-s11 HT0543 Homo sapiens cDNA
3314	16074	28724	3.98	3.0E-25	8023321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
3314	16074	28725	3.98	3.0E-25	8023321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
4837	17598	30190	0.75	3.0E-25	P28622	SWISSPROT	KALLISTATIN PRECURSOR (KALLIKREIN INHIBITOR) (PROTEASE INHIBITOR 4)
6518	16284	32288	0.6	3.0E-25	AA603560.1	EST_HUMAN	nc27b02.s1 NCL CGAP_P22 Homo sapiens cDNA clone IMAGE:117515 3' similar to gb:U61866 ZINC
8235	20928	34065	4.86	3.0E-25	AL163210.2	NT	FINGER PROTEIN 65 (HUMAN); Homo sapiens chromosome 21 segment HS21C010
10959	23635	36886	1.99	3.0E-25	AA579013.1	EST_HUMAN	nc30h10.s1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:918331 similar to contains L1.11 L1 repetitive element ;
1328	14076	28749	2.94	2.0E-25	9032158	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
2306	15031	27768	6.42	2.0E-25	BE88018.1	EST_HUMAN	601511530FT NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
2835	15259	27997	3.67	2.0E-25	P17008	SWISSPROT	46S RIBOSOMAL PROTEIN S16
4167	16607	28635	1.76	2.0E-25	P17008	SWISSPROT	46S RIBOSOMAL PROTEIN S16
4167	16607	28636	1.76	2.0E-25	P17008	SWISSPROT	46S RIBOSOMAL PROTEIN S16

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8865	22317	35514	1.94	2.0E-25	AL440573.1	EST_HUMAN	AL440573 Homo sapiens Testis (Starvick GS) Homo sapiens cDNA
355	13153	25794	1.03	1.0E-25	AL040229.1	EST_HUMAN	DKFZp434H0313.1 J1 434 (synonym: hess) Homo sapiens cDNA clone DKFZp434H0313.5'
1226	13976		2.02	1.0E-25	9835487	NT	Human endogenous retrovirus, complete element
2455	15155	27980	1.03	1.0E-25	Q08055	SWISSPROT	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9) (SUBUNIT C)
4806	17537	30160	2.84	1.0E-25	BE162737.1	EST_HUMAN	PM1-HT0454-08100-002-009 HT0454 Homo sapiens cDNA
6472	19239		0.79	1.0E-25	AA189080.1	EST_HUMAN	z445406.s1 Striatum HNT neuron (#637253) Homo sapiens cDNA IMAGE:632627 3' similar to contains Abi repetitive element;
6659	25100	32857	3.14	1.0E-25	AA582980.1	EST_HUMAN	rn54H11.s1 NO1 CGAP X08 Homo sapiens cDNA clone IMAGE:1087749 3'
7814	20509	33633	4.03	1.0E-25	AA709078.1	EST_HUMAN	z89504.s1 Soares_fetal_heart_NH-II19W Homo sapiens cDNA clone IMAGE:384822 3' similar to contains PTR5.13 PTR5 repetitive element;
9449	22123	35302	0.75	1.0E-25	X00960.1	NT	Rattus RY2G5 mRNA for a potential ligand-binding protein
9446	22123	35303	0.75	1.0E-25	X00960.1	NT	Rattus RY2G5 mRNA for a potential ligand-binding protein
10890	29570	36821	3.08	1.0E-25	U83163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
12768	25024		2.18	1.0E-25	X51755.1	NT	Human lambda-immunoglobulin constant region (germline)
2487	15204	27945	1.41	9.0E-26	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
6607	18403		1.99	8.0E-26	D14547.1	NT	Human DNA, SINE repetitive element
1571	14318	27003	1.72	7.0E-26	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
3982	16711	28351	1.23	7.0E-26	X80211.1	NT	H. sapiens DNA for endogenous retroviral like element
4138	16980	28508	2.27	7.0E-26	AW940183.1	EST_HUMAN	h02a12.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2808366 3'
5531	18348	31257	0.62	7.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11689	24284		8.45	7.0E-26	AA115885.1	EST_HUMAN	z43008.r1 Striatum neuroepithelium NT2RAM1 837234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gb3M14358 VITAMIN K-DEPENDENT PROTEIN 5 PRECURSOR (HUMAN);
12547	24885		1.64	7.0E-26	AW954559.1	EST_HUMAN	EST3069329 IMAGE resequences, IMAGE Homo sapiens cDNA
2222	14650	27689	2.04	8.0E-26	AF028008.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tryptophan gene families
3341	16100	28752	0.95	6.0E-26	AA206131.1	EST_HUMAN	z452H04.r1 Striatum neuroepithelium (#637231) Homo sapiens cDNA clone IMAGE:845271 5'
10432	23078	36301	0.68	8.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10432	23078	36302	0.68	8.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11688	24278	37900	2.03	6.0E-26	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1154	13909	26572	3.61	5.0E-26	A1708235.1	EST_HUMAN	es39H08.r1 Barbed, aorta HPLRB8 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP.F49C12.11 CE0371;

Page 251 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1154	13909	26573	3.61	5.0E-26	AI08235.1	EST_HUMAN	es38n09.x1 Barsted aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2519519 3' similar to WPF49C12.11 CE03371
1535	14282		1.4	4.0E-26	AA326648.1	EST_HUMAN	EST33448 Embryo, 12 week II Homo sapiens cDNA 5' and
9312	21979		3.72	4.0E-26	7057670	NT	Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
10598	23254	36491	2.75	4.0E-26	BE268187.1	EST_HUMAN	001191345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535210 5'
1763	14495	27194	1.21	3.0E-26	D14547.1	NT	Human DNA SINE repetitive element
1906	14732	27454	1.31	3.0E-26	AL049855.2	EST_HUMAN	DKFZp434060.j1 434 (synonym: htss) Homo sapiens cDNA clone DKFZp434060 5'
2025	14760		3.15	3.0E-26	AA115995.1	EST_HUMAN	z750408.1 Strategene neuroepithelium NIT2RAMI 83724 Homo sapiens cDNA clone IMAGE:548943 5' similar to dbM14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
3760	16512	29149	1.04	3.0E-26	AA182494.1	EST_HUMAN	z03010.1 Strategene colon (837204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:0895374
3760	16512	29149	1.04	3.0E-26	AA182494.1	EST_HUMAN	G695374 THYROID RECEPTOR INTERACTOR ;
6811	19472	32495	1.78	3.0E-26	BF243498.1	EST_HUMAN	z03010.1 Strategene colon (837204) Homo sapiens cDNA clone IMAGE:4083278 5'
10020	23319		1.42	3.0E-26	AF036405.1	NT	Homo sapiens MLL (MLL) gene, exons 1-3, and partial cds
11560	24158	37468	1.83	3.0E-26	AW876861.1	EST_HUMAN	QV2-PT0012.040400-124-e05 PT0012 Homo sapiens cDNA
11560	24158	37468	1.83	3.0E-26	AW876861.1	EST_HUMAN	QV2-PT0012.040400-124-e05 PT0012 Homo sapiens cDNA
11602	24201	37523	6.56	3.0E-26	AA583173.1	EST_HUMAN	m37405.s1 NCJ CGAP GC5 Homo sapiens cDNA clone IMAGE:1089057 3' similar to contains OFR.11
11858	24442	37783	1.38	3.0E-26	AF228925.1	NT	OFR repetitive element ;
12724	24995		2.82	3.0E-26	AW075434.1	EST_HUMAN	Mus musculus harmonin isoform b3 (Ush1c) mRNA, complete cds, alternatively spliced
698	13432	28083	6.76	2.0E-26	AL183282.2	NT	xa57809.x1 NCJ CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2570873 3' similar to contains MER30.11
1861	14999		3.07	2.0E-26	AL036069.2	EST_HUMAN	MER30 repetitive element ;
3226	15988	28642	5.89	2.0E-26	X86984.1	NT	Homo sapiens chromosome 21 segment HS21C082
5147	17868		1.09	2.0E-26	AF073482.1	NT	DKFZp596L171.1 506 (synonym: htss2) Homo sapiens cDNA clone DKFZp596L171 3'
10683	23344		2.7	2.0E-26	D87676.1	NT	M.musculus mRNA for astrocytic phosphoprotein, PE-15
11180	23949	37132	3	2.0E-26	AB01412.1	EST_HUMAN	Homo sapiens myoblastin related protein 7 mRNA, partial cds
11306	24001		2.46	2.0E-26	AF050066.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
12106	24003		1.97	2.0E-26	AB037850.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
133	12048	25591	5.18	1.0E-26	BE170371.1	EST_HUMAN	kb89d1.x1 NCJ CGAP_Gen4 Homo sapiens cDNA clone IMAGE:2185416 3' similar to contains Alu
2040	14774	27503	1.37	1.0E-26	AL036963.2	EST_HUMAN	repetitive element; contains element MER20 MER20 repetitive element ;
2693	15402		9.04	1.0E-26	AF261085.1	NT	Homo sapiens MHC class I region
						NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
						EST_HUMAN	QV4-HT0538-023000-123-e02 HT0538 Homo sapiens cDNA
						EST_HUMAN	DKFZp434H1910.j1 434 (synonym: htss3) Homo sapiens cDNA clone DKFZp434H1910 5'
						NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GADPH) mRNA, complete cds

Page 252 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8740	18574		3.05	1.0E-28	BE165980.1	EST_HUMAN	MR3-HT0487:150200-113-g01 HT0487 Homo sapiens cDNA
10809	23462		2.21	1.0E-28	AL038487.1	EST_HUMAN	DKFZp660C2148.J1 586 (synonym: hncd2) Homo sapiens cDNA clone DKFZp660C2148 5'
12348	25395		3.83	1.0E-28	H55093.1	EST_HUMAN	CHR220332 Chromosome 22 exon Homo sapiens cDNA clone C22_45 5'
7484	20156		1.11	9.0E-27	BF371227.1	EST_HUMAN	RC8-FN0138-110800-022-A02 FN0138 Homo sapiens cDNA
5203	22082		4.14	9.0E-27	U83163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
11875	24454		5.72	9.0E-27	BF445598.1	EST_HUMAN	head3507.x1 NCL CGAP_P728 Homo sapiens cDNA clone IMAGE:3253944 3' similar to contains OFR.11 OFR repetitive element:
10	12837	25460	3.83	8.0E-27	AI851482.1	EST_HUMAN	h46004.x1 NCL CGAP_L1019 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THIR.b2 THIR repetitive element:
544	13327		4.33	8.0E-27	AL103277.2	NT	Homo sapiens chromosome 21 segment HS21C027
1395	14142	29819	59.39	8.0E-27	AW162737.1	EST_HUMAN	eu87H083.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558
1395	14142	29820	59.39	8.0E-27	AW162737.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
2164	14893	27639	1.37	8.0E-27	AW694778.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
3180	15943	28594	1.81	8.0E-27	P12236	SWISSPROT	PM2-SN0018-220300-002-407 SN0018 Homo sapiens cDNA
3348	16107	28762	0.81	8.0E-27	AF161897.1	NT	ADP-ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
5808	18404	31317	1.02	8.0E-27	AV732214.1	EST_HUMAN	Homo sapiens WRN (WRN) gene, complete cds
6881	17957		2.63	8.0E-27	BE926900.1	EST_HUMAN	AV732214 HTF Homo sapiens cDNA clone HTFBC006 5'
6947	19428	32444	2.29	8.0E-27	N84970.1	EST_HUMAN	MR4-B10398-260800-204-408 B10398 Homo sapiens cDNA
9109	21797	34961	1.51	8.0E-27	AW857579.1	EST_HUMAN	J1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751 5' similar to REPETITIVE ELEMENT L1
9109	21797	34962	1.51	8.0E-27	AW857579.1	EST_HUMAN	GM1-CT0315-091289-063-407 CT0315 Homo sapiens cDNA
868	13444		1.23	7.0E-27	Z70804.1	NT	GM1-CT0315-091289-063-407 CT0315 Homo sapiens cDNA
9030	17750		2.25	7.0E-27	AW629172.1	EST_HUMAN	Human endogenous retroviral element HC2
8756	21448		1.19	7.0E-27	D89884.1	NT	h151h12.x1 Scans, NFL, I, GBO, S1 Homo sapiens cDNA clone IMAGE:2978879 3' similar to TR.O76040
10850	23341		4.26	7.0E-27	AJ271795.1	NT	O76040 ORF2: FUNCTION UNKNOWN. ;
12484	24843		2.12	7.0E-27	AV723395.1	EST_HUMAN	Human mRNA for KIAA0231 gene, partial cds
10927	23320	36558	2.76	6.0E-27	M28697.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
11904	24394	37728	1.57	6.0E-27	U93163.1	NT	AV723395 HTB Homo sapiens cDNA clone HTBAHE02 5'
							Human nuclear protein (B23) mRNA, complete cds
							Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10137	22785	35986	2.82	5.0E-27	BF068814.1	EST_HUMAN	602121491.F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4278527 5'
10137	22785	35987	2.82	5.0E-27	BF068814.1	EST_HUMAN	602121491.F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4278527 5'
6645	19407	32421	1.85	4.0E-27	6910530	NT	Mus musculus sperm tail associated protein (Stap), mRNA
7840	20335		1.07	4.0E-27	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
7863	20378		1.84	4.0E-27	AF078776.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9844	22296		0.7	4.0E-27	AW880850.1	EST_HUMAN	QV6-OT0033-070300-152-510 OT0033 Homo sapiens cDNA
11804	24203	37325	1.98	4.0E-27	X89211.1	NT	H. sapiens DNA for endogenous retroviral llo element
2034	14769	27489	4.61	3.0E-27	X80698.1	NT	R. rattus RYAS mRNA for a potential ligand-binding protein
4238	16979	29604	1.06	3.0E-27	BE071024.1	EST_HUMAN	PM6-BT0527-060100-001-411 BT0527 Homo sapiens cDNA
5282	18068	30897	8.24	3.0E-27	AA077705.1	EST_HUMAN	7844C08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7844C08
7698	20391	33478	0.63	3.0E-27	BE070381.1	EST_HUMAN	763302.x1 NCL CGAP_Luc2 Homo sapiens cDNA clone IMAGE:3284283 3'
9205	22084	35256	2.03	3.0E-27	BF033327.1	EST_HUMAN	601458531.F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3862088 5'
40	12668	25487	14.84	2.0E-27	AF054187.1	NT	Homo sapiens alpha NAG mRNA, complete cds
1888	14625		5.12	2.0E-27	AA565345.1	EST_HUMAN	nk07b10.1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:1000698 similar to gb:M17886 60S
3107	15872		10.39	2.0E-27	AW028172.1	EST_HUMAN	H51M12.x1 Sources_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2875879 3' similar to TR-O76040
3218	15981	28632	1.98	2.0E-27	AF111187.2	NT	076040 ORF2: FUNCTION UNKNOWN. ; Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
3218	15981	28933	1.98	2.0E-27	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
4009	18755	29385	1.38	2.0E-27	AF000398.1	NT	Rattus norvegicus voltage-gated sodium channel mRNA, complete cds
8577	16340	32953	0.61	2.0E-27	H02895.1	EST_HUMAN	X08401.1 Sources placenta Nb2-4P Homo sapiens cDNA clone IMAGE:160840 5' similar to
7888	20684	33810	1.85	2.0E-27	AI866347.1	EST_HUMAN	SP-HMGC_MOUSE_Q02691 HOMEBOX PROTEIN ; w128907.x1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:2426263 3'
9189	21839		2.3	2.0E-27	AA551527.1	EST_HUMAN	rh08h05.x1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:943737 similar to contains L1.13 L1
9691	22342	35836	0.76	2.0E-27	X80698.1	NT	repetitive element ; R. rattus RYAS mRNA for a potential ligand-binding protein
9835	22583	35782	1.28	2.0E-27	M78590.1	EST_HUMAN	EST00738 Fetal brain, Striatum (ca0363208) Homo sapiens cDNA clone HFB0707
9835	22583	35783	1.28	2.0E-27	M78590.1	EST_HUMAN	EST00738 Fetal brain, Striatum (ca0363208) Homo sapiens cDNA clone HFB0707
10875	23355	36802	4.11	2.0E-27	AU121695.1	EST_HUMAN	AU121695 MAMMA1 Homo sapiens cDNA clone MAMMA1000746 5'
11489	14625		3.31	2.0E-27	AA565345.1	EST_HUMAN	nk07b10.1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:1000698 similar to gb:M17886 60S
428	13212		1.51	1.0E-27	AL163246.2	NT	ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN); Homo sapiens chromosome 21 segment HS21C046

Page 254 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
979	13741	28404	1.34	1.0E-27	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4061	18906		0.98	1.0E-27	BE360127.1	EST_HUMAN	h08g01.x1 NCL CGAP_Kd13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element;
6449	19217	32215	0.28	1.0E-27	6005655	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
6771	19515	32542	1.96	1.0E-27	F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
6771	19515	32543	1.96	1.0E-27	F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8508	21200	34348	0.88	1.0E-27	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8894	21575		2.26	1.0E-27	BE079780.1	EST_HUMAN	ROC-BT0627-140200-011-E06 BT0627 Homo sapiens cDNA
9622	22275	35463	2.55	1.0E-27	D87449.1	NT	Human mRNA for KIAA0260 gene, partial cds
11704	24289	37025	3.61	1.0E-27	AF111083.1	NT	Bos taurus leprolin 3 splice variant brain mRNA, complete cds
137	12951		2.04	9.0E-28	BE348350.1	EST_HUMAN	hwt17c11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183188 3' similar to TR-Q07314 Q07314 SECRETED NEUREXIN III-ALPHA-C PRECURSOR, [3] TR-Q07280 TR-Q07313;
303	13107	25747	3.31	9.0E-28	AU126280.1	EST_HUMAN	AU126280 NT2RP1 Homo sapiens cDNA clone NT2RP1000443 5'
10289	22637	36150	0.83	9.0E-28	AA174078.1	EST_HUMAN	zp18g12.x1 Stratigene fetal retina 837202 Homo sapiens cDNA clone IMAGE:608862 3'
11951	24504		4.85	9.0E-28	BF377850.1	EST_HUMAN	CM2-TN0140-070900-372-g01 TN0140 Homo sapiens cDNA
12268	25245		2.48	8.0E-28	AW157571.1	EST_HUMAN	au83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to TR-Q06902 Q06902 KIAA0555 PROTEIN, contains element MER22 repetitive element;
1158	13913	26578	7.89	7.0E-28	AU142750.1	EST_HUMAN	AU142750 Y78A1 Homo sapiens cDNA clone Y78A1A1000824 5'
11442	23909	37089	3.36	7.0E-28	11417898	NT	Homo sapiens gemme-glutamyltransferase-like activity 1 (GGTLA1), mRNA
11910	24474		2.78	7.0E-28	AV735348.1	EST_HUMAN	AV735348 CB Homo sapiens cDNA clone G3FAKA12 5'
8817	21509		0.97	6.0E-28	AF016052.1	NT	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
12526	24873		2.35	9.0E-28	AA504562.1	EST_HUMAN	ae00a03.1 NCL CGAP_G0381 Homo sapiens cDNA clone IMAGE:825340 5' similar to contains AU repetitive element; contains element PTR6 repetitive element;
310	13114		4.19	5.0E-28	AB271003.1	EST_HUMAN	hwt18c07.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2455692 3' similar to contains THR.b1 THR repetitive element;
3990	16738	29372	1.44	5.0E-28	R79762.1	EST_HUMAN	y88f10.1 Homo sapiens cDNA clone IMAGE:148443 5'
2931	15343	29087	1.68	4.0E-28	AW165096.1	EST_HUMAN	xn33c09.x1 NCL CGAP_Kd11 Homo sapiens cDNA clone IMAGE:148443 5'
2678	15742	28389	0.78	4.0E-28	4605316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
3100	15871	28511	2.52	4.0E-28	BE469100.1	EST_HUMAN	g01300703F1 NH1 MGC 27 Homo sapiens cDNA clone IMAGE:3636305 5'
7230	19815	32688	1.83	4.0E-28	A108941.1	EST_HUMAN	g06f10.x1 Scarsa testis NH1 Homo sapiens cDNA clone IMAGE:1756018 3' similar to gb:M15903 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);

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10774	23457		3.08	4.0E-28	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10828	23608		17.24	4.0E-28	AB038241.1	NT	Felis catus GAPDH mRNA for glyceraldehyde-3-phosphate dehydrogenase, complete cds
10950	18916	32388	4.75	4.0E-28	AF108941.1	EST_HUMAN	qf88f10.x1 Scarsa, testis, NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:U416503 LINE-1
12312	24734		1.84	4.0E-28	AF084244.1	EST_HUMAN	REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
1260	14009		2.88	3.0E-28	AF155382.1	NT	RG3-CT0254-240400-210-P12 CT0254 Homo sapiens cDNA
5051	17770		1.05	3.0E-28	AF008800.1	NT	Homo sapiens metalloprotease-like, disintegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA, complete cds
8728	21418	34582	1.89	3.0E-28	BF354030.1	EST_HUMAN	Homo sapiens T cell receptor beta locus, TCRBV7S9A2 to TORBV12S2 region
10953	23533	36778	2.09	3.0E-28	U53688.1	NT	MR3-HIT0713-280500-013-003 HIT0713 Homo sapiens cDNA
12944	24751		3.82	3.0E-28	AF031891.1	EST_HUMAN	Homo sapiens MHC class 1 region
87	12913	25561	10.6	2.0E-28	BE062187.1	EST_HUMAN	wf8807.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410895 3' similar to contains Alu repetitive element contains element HGR repetitive element
1023	13783	26444	0.86	2.0E-28	4501812	NT	RC1-BT0254-220300-019-005 BT0254 Homo sapiens cDNA
1142	13897	26558	18.03	2.0E-28	Y11107.3	NT	Homo sapiens a disintegrin and metalloprotease domain 23 (ADAM23) mRNA
2481	15199	27639	2.1	2.0E-28	AF348834.1	EST_HUMAN	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
8215	18999	31906	1.33	2.0E-28	BF224402.1	EST_HUMAN	q35806.x1 NCI CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2 L1 repetitive element
8238	19012		5.07	2.0E-28	BF212905.1	EST_HUMAN	h76c03.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134404 3' similar to contains LOR1.b1 LOR1 repetitive element
7943	20338	33790	0.71	2.0E-28	AF005273.1	NT	801814196F1 NH_MGC_54 Homo sapiens cDNA clone IMAGE:4048761 5'
9484	22137		5.54	2.0E-28	AF072305.1	EST_HUMAN	Sus scrofa domestica subfamily apomucin mRNA, complete cds
11614	24212	37558	1.84	2.0E-28	AF224688.1	NT	EST1384394 IMAGE resequences, MAGL Homo sapiens cDNA
12322	24741		2.22	2.0E-28	H06378.1	EST_HUMAN	Homo sapiens metalloprotease, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D) genes, complete cds
1461	14208	26935	2.84	1.0E-28	D38044.1	NT	W78081F1 Scores infant brain 1NIB Homo sapiens cDNA clone IMAGE:44300 5'
2217	14945	27885	2.37	1.0E-28	BF333238.1	EST_HUMAN	Human gene for A1-receptor, exon 7-9
7769	20455		3.2	1.0E-28	11429885	NT	QV1-BT0821-126900-390-803 BT0821 Homo sapiens cDNA
7917	20612		3.3	1.0E-28	8622703	NT	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC33081), mRNA
9178	21848	35014	4.84	1.0E-28	AA308744.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10688 (FLJ10688), mRNA
9776	22427	35633	8.73	1.0E-28	4759431	NT	EST179815 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to similar to retroviral LTR
9778	22427	35634	8.73	1.0E-28	4759431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA
9779	22427	35634	8.73	1.0E-28	4759431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10422	23058		0.53	1.0E-28	U148356.1	EST_HUMAN	AU148356 NT2RM4 Homo sapiens cDNA clone NT2RM4:402148 3'
11815	24478		7.79	1.0E-28	AA054182.1	EST_HUMAN	ZF51c01.1 Soares retina N2B-4HR Homo sapiens cDNA clone IMAGE:380448 5'
12661	25143		1.88	1.0E-28	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12749	25346	30603	3.18	9.0E-28	AW1663867.1	EST_HUMAN	HT6908.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2878288 3'
12436	24806		3.32	8.0E-28	Q00130	SWISSPROT	HYPOTHETICAL GENE 50 PROTEIN
1598	14344	27034	1.37	7.0E-28	AW168447.1	EST_HUMAN	EST1378521 MAC2 resequencing, MAGI Homo sapiens cDNA
12784	25045		7.13	7.0E-28	AL132382.1	NT	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
581	13361	26989	16.89	6.0E-28	AB36748.1	EST_HUMAN	WP66001.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2466085 3' similar to TR:O15475
12201	24689		8.09	6.0E-28	BE940436.1	EST_HUMAN	O15475 UNANIMED HERV-H PROTEIN; contains LTR7.b1 LTR7 repetitive element;
12286	24717		1.72	6.0E-28	BF568097.1	EST_HUMAN	RC3-JU70062-210800-021-c05 UT0062 Homo sapiens cDNA
8630	21322		5.36	5.0E-28	AW1687541.1	EST_HUMAN	602184092F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300079 5'
						EST_HUMAN	RC3-OT0081-170300-011-c12 OT0081 Homo sapiens cDNA
3226	15989		1.84	4.0E-28	A782367.1	EST_HUMAN	on15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_on15c02 random
5919	18704		7.91	4.0E-28	BE164930.1	EST_HUMAN	QV1-HT0471-280300-121-a05 HT0471 Homo sapiens cDNA
		33787	0.55	4.0E-28	AU678101.1	EST_HUMAN	MER29.12 MER29 repetitive element;
7979	20874		0.55	4.0E-28	AU678101.1	EST_HUMAN	wt35g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
7979	20874	33798	0.55	4.0E-28	AU678101.1	EST_HUMAN	MER29.12 MER29 repetitive element;
8644	21336	34490	6.21	4.0E-28	JA4988.1	NT	Human 20 kD heat shock protein gene, complete cds
4381	17118	29751	1.4	3.0E-28	AB042297.1	NT	Human 20 kD heat shock protein gene, complete cds
4684	17418	30054	1.07	3.0E-28	BF333236.1	EST_HUMAN	QV1-BT0821-120500-380-503 BT0821 Homo sapiens cDNA
8641	18629	31654	1.18	3.0E-28	BE314018.1	EST_HUMAN	801162667F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508527 5'
8632	21324	34495	2.87	3.0E-28	D38044.1	NT	Human gene for A1-receptor, exon 7-9
9200	21860	35034	1.92	3.0E-28	AW303317.1	EST_HUMAN	XV1703.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains A1u
9431	22109		1.87	3.0E-28	AL163248.2	NT	repetitive element/contains MER18.12 MER19 repetitive element;
						EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9859	22509		0.81	3.0E-28	BE350127.1	EST_HUMAN	MER29 repetitive element;
11235	23868	37185	1.47	3.0E-28	AA403093.1	EST_HUMAN	262501.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
12102	24900		1.53	3.0E-28	D63882.1	NT	G1335769 GAG-POL POLYPROTEIN;
12768	25376		7.53	3.0E-28	AA016177.1	EST_HUMAN	Human HaLM15 mRNA for HaLM15, complete cds
480	13285	29500	1.72	2.0E-28	AF084898.1	NT	262509.x1 Soares retina N2B-4HR Homo sapiens cDNA clone IMAGE:390712 3'
						EST_HUMAN	Homo sapiens envelope protein RIC-8 (env) gene, complete cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
460	13265	25901	1.72	2.0E-29	AF084668.1	NT	Homo sapiens envelope protein RUC-6 (env) gene, complete cds
1523	14270	26855	6.62	2.0E-29	AB93604.1	EST_HUMAN	W65610.X1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2462563 3' similar to TR:O15546 O15546 HERV-E ENVELOPE GLYCOPROTEIN ;
1623	14270	26856	6.62	2.0E-29	AB93604.1	EST_HUMAN	W65610.X1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2462563 3' similar to TR:O15546 O15546 HERV-E ENVELOPE GLYCOPROTEIN ;
4246	16967	29810	1.63	2.0E-29	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C048
5735	16527	31449	0.99	2.0E-29	AB82459.1	EST_HUMAN	ca71e04.x1 NCL CGAP_GG2 Homo sapiens cDNA clone IMAGE:1610814 3' similar to contains L1:12 L1 repetitive element ;
6087	18996	31830	1.48	2.0E-29	AB004118.1	EST_HUMAN	W27607.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359860 3' similar to contains element MER6 repetitive element ;
7459	18995	31830	1.36	2.0E-29	AB004118.1	EST_HUMAN	W27607.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359860 3' similar to contains element MER6 repetitive element ;
7978	20571	33698	1.16	2.0E-29	BE887157.1	EST_HUMAN	601442206.F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3846548 5'
8471	21169	34313	0.63	2.0E-29	10507821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
8471	21169	34314	0.63	2.0E-29	10507821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
9408	22070	35241	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
9408	22070	35242	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10139	22767	35869	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10139	22767	36000	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10871	23567	36804	1.31	2.0E-29	BF025947.1	EST_HUMAN	60169934.F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3652833 5'
11459	24003		2.04	2.0E-29	11425108	NT	Homo sapiens splicing factor similar to dhx1 (SPF31), mRNA
11469	24100		1.73	2.0E-29	AW880701.1	EST_HUMAN	QV0-0710032-080300-155-d01 OT10032 Homo sapiens cDNA
8901	23183	34527	7.37	1.0E-29	AW063880.1	EST_HUMAN	RC1-HN0003-220300-021-b04 HN0003 Homo sapiens cDNA
10519	23164	36391	0.85	1.0E-29	X60653.1	NT	Rattus RYAS mRNA for a potential ligand-binding protein
6487	18264	32255	2.97	0.0E-30	AA761215.1	EST_HUMAN	nz20007.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1285332 3' similar to contains MER4.51 MER4 repetitive element ;
11982	24531		1.76	8.0E-30	11422745	NT	Homo sapiens zincfin regulated transporter-like (ZIRTL), mRNA
6227	19001		8.94	8.0E-30	F06888.1	EST_HUMAN	HSC23F051 normalised Infant brain cDNA Homo sapiens cDNA clone c-23f05
8168	20862	33904	3.72	8.0E-30	AA383873.1	EST_HUMAN	ES107317 Thymus 1 Homo sapiens cDNA 5' and similar to EST containing O family repeat
9583	21275	34412	3.1	8.0E-30	A057072.1	EST_HUMAN	PT2.1_13_B11.r tumor2 Homo sapiens cDNA 3'
1505	14251		1.03	7.0E-30	BE097133.1	EST_HUMAN	PM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA
1786	14508	27209	1.73	6.0E-30	D25303.1	NT	Human mRNA for integrin alpha subunit, complete cds
3185	15948	28598	2.3	6.0E-30	BE008028.1	EST_HUMAN	QV0-BN0147-230400-214-f12 BN0147 Homo sapiens cDNA
10437	23083	36310	0.48	6.0E-30	AF17727.1	NT	Homo sapiens GTC1 tumor antigen snc20-10 mRNA, partial cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12769	17897		3.38	8.0E-30	X51755.1	NT	Human, lambda-immunoglobulin constant region complex (germline)
3894	16742	28376	26.19	5.0E-30	A1398992.1	EST_HUMAN	1992G03.X1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:19276 3' similar to contains Alu repetitive element
5159	25178		6.44	5.0E-30	U87931.1	NT	Human acetylcholinesterase (AChE) gene, exon 7
10902	23465		1.95	5.0E-30	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11103	23773	37047	2.47	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11103	23773	37048	2.47	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2139	14899	27569	1.72	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-080200-080-c08 DT0043 Homo sapiens cDNA
2139	14899	27600	1.72	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-080200-080-c08 DT0043 Homo sapiens cDNA
6756	17925	30590	0.83	4.0E-30	P11309	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
8803	21495	34641	2.82	4.0E-30	AW812488.1	EST_HUMAN	GM1-ST0181-091198-035-f08 ST0181 Homo sapiens cDNA
1129	13895		2.11	3.0E-30	A1338551.1	EST_HUMAN	993305.X1 Soares, total Testis_Nic2H58_5w Homo sapiens cDNA clone IMAGE:1938020 3' similar to contains MER29 repetitive element
3740	15483	26128	0.93	3.0E-30	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
7852	20547		0.58	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat lcn channel mRNA, complete cds
8385	21078		0.48	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat lcn channel mRNA, complete cds
10333	22880	36200	1.7	3.0E-30	BE360127.1	EST_HUMAN	h109d01.X1 NCI CGAP JQ4713 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 repetitive element
10465	23111	36342	0.53	3.0E-30	AB032690.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
10465	23111	36343	0.53	3.0E-30	AB032690.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11168	23835	37116	2.48	3.0E-30	P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
680	13438	26077	0.92	2.0E-30	AW857315.1	EST_HUMAN	GM0-CT0307-310100-158-H03 CT0307 Homo sapiens cDNA
1062	13520		3.11	2.0E-30	F08888.1	EST_HUMAN	HS023F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
1462	14209	26860	5.31	2.0E-30	BE178877.1	EST_HUMAN	HS023F052-110400-013-H08 HT0582 Homo sapiens cDNA
2720	15427	28165	8	2.0E-30	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
2920	15699	28331	6.39	2.0E-30	AF114158.1	NT	Homo sapiens Y-linked zinc finger protein (ZFY) gene, complete cds
3769	16521	29100	2.28	2.0E-30	AW206981.1	EST_HUMAN	UHH-B11-af0-c-12-a-U1.1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722558 3'
4727	17459	30065	1.51	2.0E-30	BE298945.1	EST_HUMAN	801119890F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3029438 5'
4727	17459	30068	1.51	2.0E-30	BE298945.1	EST_HUMAN	801119890F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3029438 5'
6900	19420	32435	0.55	2.0E-30	BF306337.1	EST_HUMAN	801893208F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:4135983 5'
8376	21069	34208	0.45	2.0E-30	AA019103.1	EST_HUMAN	ze58c10.1 Soares retina N264HR Homo sapiens cDNA clone IMAGE:383188 5'
8435	21128	34295	4.86	2.0E-30	G18839.1	EST_HUMAN	C18839 Human placenta cDNA (Tfujivara) Homo sapiens cDNA clone GEN-576001 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8533	21225	34398	3.61	2.0E-30	BE970617.1	EST_HUMAN	7637c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284662 3' similar to SW-DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR;
8533	21225	34397	3.61	2.0E-30	BE970617.1	EST_HUMAN	7637c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284662 3' similar to SW-DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR;
8537	22547	35741	3.62	2.0E-30	AW071668.1	EST_HUMAN	EST336357 MAGC resequencing, MAGC Homo sapiens cDNA
8582	22630	39839	7.37	2.0E-30	AW470791.1	EST_HUMAN	h433406.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875469 3' similar to contains THR.b3 THR repetitive element;
280	13087	25720	18.33	1.0E-30	G18939.1	EST_HUMAN	G18939 Human placenta cDNA (Tfujwera) Homo sapiens cDNA clone GEN-570C01 5'
525	13009	26942	2.34	1.0E-30	AW498997.1	EST_HUMAN	h430604.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910691 3' similar to contains MER1.13 MER1 MER1 repetitive element;
690	13474	26122	2.62	1.0E-30	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21Q003
2208	14637	27675	7.16	1.0E-30	AA84377.1	EST_HUMAN	ac77b08.x1 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:368599 3'
2404	15182	27821	2.01	1.0E-30	BFS47728.1	EST_HUMAN	602022590F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4157691 5'
3050	15916	28461	0.94	1.0E-30	AA315045.1	EST_HUMAN	EST1188888 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end
7624	20200	33369	2.46	1.0E-30	BF183290.1	EST_HUMAN	801809932F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:404664 5'
12581	25268		0.95	1.0E-30	H65983.1	EST_HUMAN	CHR220532 Chromosome 22 exon Homo sapiens cDNA clone C22_728 5'
3748	16901	28135	0.81	9.0E-31	T73025.1	EST_HUMAN	yc6506.11 Stratagene liver (#637224) Homo sapiens cDNA clone IMAGE:85570 5'
3748	16501	28136	0.81	9.0E-31	T73025.1	EST_HUMAN	yc6506.11 Stratagene liver (#637224) Homo sapiens cDNA clone IMAGE:85570 5'
8223	20617	34053	0.81	9.0E-31	R18214.1	EST_HUMAN	y69408.11 Soares Infant brain (INIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:U12853 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8223	20617	34054	0.81	9.0E-31	R18214.1	EST_HUMAN	y69408.11 Soares Infant brain (INIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:U12853 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8522	21214		1.83	9.0E-31	Z38263.1	EST_HUMAN	HS005F032 normalized Infant brain cDNA Homo sapiens cDNA clone c-05f03 3'
8524	21216	34359	0.48	9.0E-31	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
1054	13613	28473	2.41	8.0E-31		NT	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2474	15135		4.6	8.0E-31	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21Q008
4881	17560	30213	1.43	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
4881	17560	30214	1.43	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 16 (OR3)
2674	15363	28123	3.28	7.0E-31	BE326517.1	EST_HUMAN	hw05a11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
2674	15363	28124	3.28	7.0E-31	BE326517.1	EST_HUMAN	hw05a11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
8300	20994	34130	0.96	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
8300	20994	34131	0.96	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds

Page 260 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9169	21836		0.94	7.0E-31	BE408611.1	EST_HUMAN	801304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638810 5'
12434	24805	31044	2.26	7.0E-31	X51755.1	NT	Human lamibda-immunoglobulin constant region complex (germline)
3687	16420		2.88	6.0E-31	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8053	20747		4.37	6.0E-31	AF058008.1	NT	Homo sapiens MHC class 1 region
8226	20923	34062	0.95	6.0E-31	BE350127.1	EST_HUMAN	h004071.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146258 3' similar to contains MIER29.B3
12168	25185		1.88	6.0E-31	BE804488.1	EST_HUMAN	MER29 repetitive element;
187	13000	25640	3.58	5.0E-31	M80884.1	NT	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3818524 5'
187	13000	25641	3.58	5.0E-31	M80884.1	NT	Homo sapiens type I DNA topoisomerase gene, exon 8
8344	21037		0.73	5.0E-31	BF066540.1	EST_HUMAN	7406004.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR-Q13537 Q13537
582	19362		6.18	4.0E-31	AJ271795.1	NT	SIMILAR TO POGO ELEMENT; contains L1, L1 repetitive element;
1608	14352	27040	0.91	4.0E-31	Q10473	SWISSPROT	POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE (PROTEIN-UDP
1810	14550		1.57	4.0E-31	AL163280.2	NT	ACETYL GALACTOSAMINYLTRANSFERASE (UDP-GALNAc:POLYPEPTIDE, N-
2792	15487		1.23	4.0E-31	8730038	NT	ACETYL GALACTOSAMINYLTRANSFERASE (GALNAc-T1)
12205	24672		1.86	4.0E-31	AJ230125.1	NT	Homo sapiens chromosome 21 segment HS21C080
12457	24826		1.86	4.0E-31	11430273	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
7298	18624	32889	12.23	3.0E-31	4828853	NT	Homo sapiens KIAA0568 gene product (KIAA0568), mRNA
7393	20072	33151	1.26	3.0E-31	11420329	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (18kD, ASH1) (NDUFB8) mRNA
5091	20755		2	3.0E-31	AL182006.2	NT	Homo sapiens hypothetical protein FLJ10842 (FLJ10842), mRNA
9479	22132	35312	3.7	3.0E-31	D14523.1	NT	Homo sapiens chromosome 21 segment HS21C006
10498	23144	36371	0.54	3.0E-31	AA421242.1	EST_HUMAN	Horse mRNA for ferritin L-chain, complete cds
10527	23224	36458	2.04	3.0E-31	P11174	SWISSPROT	z008004.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731047 5'
11101	23771		3.65	3.0E-31	BF035327.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S15 (RIG PROTEIN)
12819	25059		1.66	3.0E-31	AB037763.1	NT	601438331F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5'
1810	14647	27358	1.37	2.0E-31	AW638171.1	EST_HUMAN	Homo sapiens mRNA for KIAA1342 protein, partial cds
2211	14699	27077	1.09	2.0E-31	AB68388.1	EST_HUMAN	QV24.LT0031-280500-111-403 LT0051 Homo sapiens cDNA
2339	15062	27600	1.89	2.0E-31	AL116245.1	EST_HUMAN	tp44g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111672 3'
2442	15161	27698	4.01	2.0E-31	AA458824.1	EST_HUMAN	DKFZp761G1513_1 761 (synonym: hemy2) Homo sapiens cDNA clone DKFZp761G1513 5'
							aa08f11.s1 Stratiogene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains THR.L2 THR repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5163	18001	30824	0.61	2.0E-31	AW444466.1	EST_HUMAN	U1H-B18-4b-F-09-0-U1.x1 NCL CGAP. Sub5 Homo sapiens cDNA clone IMAGE:2733833 3'
5624	18421	31334	3.57	2.0E-31	BE350127.1	EST_HUMAN	h09g01.x1 NCL CGAP. Kd13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER28.b3 MER28 repetitive element.
8875	21685		2.05	2.0E-31	AA877764.1	EST_HUMAN	m0804.st NCL CGAP. C010 Homo sapiens cDNA clone IMAGE:1161055 3' similar to TR-Q13537 Q13537
9107	21795	34959	3.94	2.0E-31	7681635	NT	Homo sapiens B9 protein (B9), mRNA
9808	22457	35681	0.94	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 5'
9808	22457	35682	0.94	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 5'
9878	22623	35629	2.35	2.0E-31	BE408811.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:368310 5'
9878	22623	35630	2.35	2.0E-31	BE408811.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:368310 5'
12144	24632		1.58	2.0E-31	AF148612.1	NT	Homo sapiens hexokinase II gene, promoter region
12279	25413		1.75	2.0E-31	A1114527.1	EST_HUMAN	HA1110 Human fetal liver cDNA library Homo sapiens cDNA
15	12842	25458	11.09	1.0E-31	U93163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
1658	14404	27082	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1658	14404	27093	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1658	14404	27094	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
4582	17327	26982	1.15	1.0E-31	AL134378.1	EST_HUMAN	DKFZp547B235.1 B47 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547B235 5'
4582	17327	26983	1.15	1.0E-31	AL134378.1	EST_HUMAN	DKFZp547B235.1 B47 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547B235 5'
5210	18018	30940	3.79	1.0E-31	AW391679.1	EST_HUMAN	MR3-510220-167298-028-408.1 510220 Homo sapiens cDNA
6042	18822	31782	2.2	1.0E-31	AF048727.1	NT	Homo sapiens mitochondrial cell repeat region
7189	18876	32948	1	1.0E-31	AF128145.1	NT	Bos taurus xenobiotic/medium-chain fatty acid CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
10136	22784	35695	0.51	1.0E-31	U93163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
10833	23515	36757	2.7	1.0E-31	A088494.1	EST_HUMAN	d21H03.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750709 3' similar to TR-Q16585 Q16585 FRATAXIN.
11830	24414	37782	1.48	1.0E-31	U66061.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV35S1, TCRBV45S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBHS1, TCRB152.>
7492	20184	32312	2.38	9.0E-32	AV723976.1	EST_HUMAN	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'
2070	14802	27530	0.66	9.0E-32	11430822	NT	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
2070	14802	27530	2.48	8.0E-32	A090770.1	EST_HUMAN	oz15a09.x1 Soares_feld_liver_spleen_1INFLS_31 Homo sapiens cDNA clone IMAGE:1675394 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6394	18164	30887	0.97	8.0E-32	AW697214.1	EST_HUMAN	RC2-BN0048-203200-015-004 BN0048 Homo sapiens cDNA
4807	17538	30161	0.98	7.0E-32	P92591	SWISSPROT	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KD) (P145)
12122	24614		8.19	7.0E-32	X17283.1	NT	Human chromosome 22 Immunoglobulin V(K) gene, part with 5' breakpoint between orfion and neighborhood non-amplified region
2735	15442	28180	1.01	6.0E-32	AA78104.1	EST_HUMAN	Im34e10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:215894 3' similar to contains MER28.13
7266	19850		1.47	8.0E-32	BE388018.1	EST_HUMAN	MER28 repetitive element
1011	13771	26431	10.78	6.0E-32	AF116927.1	NT	601611530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
910	13677		1.76	4.0E-32	AL163246.2	NT	Homo sapiens PRO1181 mRNA, complete cds
5148	17887		0.91	4.0E-32	AB85593.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
7503	20174	33266	2.94	4.0E-32	11432574	NT	wa08h12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2498647 3' similar to contains MER18.b3
7503	20174	33267	2.94	4.0E-32	11432574	NT	MER18 repetitive element
8257	20851		1.2	4.0E-32	BE094410.1	EST_HUMAN	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
443	13226	25872	3.7	3.0E-32	Y17283.1	NT	RC4-BT0311-141189-011-H09 BT0311 Homo sapiens cDNA
1437	14184	26870	8.08	3.0E-32	AV781600.1	EST_HUMAN	Homo sapiens FLL-1 gene, partial
9234	21861	35135	8.38	3.0E-32	AV786834.1	EST_HUMAN	AV731500 HTF Homo sapiens cDNA clone HTFA037 6'
9234	21861	35136	8.38	3.0E-32	AV786834.1	EST_HUMAN	AV759834 BM Homo sapiens cDNA clone BMFBH12 5'
10843	23525	36786	3.57	3.0E-32	AA777621.1	EST_HUMAN	AV759834 BM Homo sapiens cDNA clone BMFBH12 5'
12148	24634		3.51	3.0E-32	BE270086.1	EST_HUMAN	z65807.s1 Scarsa_feld_liver, spleen, 1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR18 THR repetitive element
12507	17899	30596	2.97	3.0E-32	8174574	NT	601156295F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
12507	17899	30597	2.97	3.0E-32	8174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL1) mRNA
12668	24956		2.27	3.0E-32	BE270086.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL1) mRNA
6158	18636	31902	0.81	2.0E-32	M35418.1	NT	601156295F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
6387	19156	32156	5.32	2.0E-32	Z38133.1	NT	Human cell 12-lipoxygenase mRNA, complete cds
6387	19156	32156	5.32	2.0E-32	Z38133.1	NT	H. sapiens mRNA for myosin
8176	20870	34003	2.26	2.0E-32	AA114294.1	EST_HUMAN	H. sapiens mRNA for myosin
8176	20870	34004	2.26	2.0E-32	AA114294.1	EST_HUMAN	z66608.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
11859	24443	37784	2.06	2.0E-32	118882.1	EST_HUMAN	z66608.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
12763	25022	30861	2.42	2.0E-32	AV736446.1	EST_HUMAN	b120568 Testis 1 Homo sapiens cDNA clone b12058
							AV736446 CB Homo sapiens cDNA clone CBFBIA08 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12763	25022	30662	2.42	2.0E-32	AV736449.1	EST_HUMAN	AV736449 CB Homo sapiens cDNA clone CBFA08 5'
3060	15655		1.67	1.0E-32	BE743288.1	EST_HUMAN	801579207F1 NIH JMG_9 Homo sapiens cDNA clone IMAGE:3834433 5'
6065	19437	32453	7.02	1.0E-32	11439789	NT	Homo sapiens chromosome 11 open reading frame 9 (C11ORF9), mRNA
							nm21002.s1 NCI_CGAP_GC80 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THIR.13
8404	21186	34329	8.08	1.0E-32	AA720574.1	EST_HUMAN	THIR repetitive element;
							nm07c05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TRC08539 088539
3474	18230		4.68	9.0E-33	BE327112.1	EST_HUMAN	WW DOMAIN BINDING PROTEIN 11.;
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
6326	19066		4.05	9.0E-33	AF223391.1	NT	802021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156970 5'
8687	21379	34523	1.95	9.0E-33	BF347229.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
10701	23392		5.22	9.0E-33	AL163280.2	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
58	12887	25517	3.14	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
58	12887	25518	3.14	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
2168	14888	27822	2.29	7.0E-33	AI590115.1	EST_HUMAN	nt21002.s1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.11 OFR
2955	16365		6.45	7.0E-33	AV730056.1	EST_HUMAN	repetitive element;
3236	15998		9.3	7.0E-33	AW971307.1	EST_HUMAN	AV730056 HITF Homo sapiens cDNA clone HTFAVED6 5'
							EST1383396 MAGE resequences, MAGE Homo sapiens cDNA
8845	21537		1.56	7.0E-33	X54890.1	NT	Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphatase) (EC 3.1.3.48)
10732	23418	36930	2.41	7.0E-33	BF347229.1	EST_HUMAN	802021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156970 5'
11213	23879	37152	1.93	7.0E-33	AW971698.1	EST_HUMAN	EST1383397 MAGE resequences, MAGE Homo sapiens cDNA
							nt01801.s1 NCI_CGAP_P1er1 Homo sapiens cDNA clone IMAGE:1100881 3' similar to contains L1.H1.L1
12127	24619	31090	4.34	7.0E-33	AA601418.1	EST_HUMAN	repetitive element;
3720	18473		0.94	6.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5976	18758	31720	0.96	6.0E-33	F30031.1	EST_HUMAN	HSPD21201 HMB3 Homo sapiens cDNA clone e4000107H06
5976	18758	31721	0.96	6.0E-33	F30031.1	EST_HUMAN	HSPD21201 HMB3 Homo sapiens cDNA clone e4000107H06
8478	21170	34315	9.33	6.0E-33	J04038.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds
8603	21295	34438	3.09	6.0E-33	11429188	NT	Homo sapiens similar to RAD23 (S. cerevisiae) homolog B (H. sapiens) (LOC33277), mRNA
9910	22559	35754	1.12	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Scd6), mRNA
9910	22559	35755	1.12	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Scd6), mRNA
1770	14612		1.46	5.0E-33	BF373515.1	EST_HUMAN	QV1-F10168-100700-271-402 F10168 Homo sapiens cDNA
1874	14612		1.19	5.0E-33	11141884	NT	Homo sapiens solid carrier family 5 (choline transporter), member 7 (SLC6A7), mRNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
1891	14628	27338	1.43	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2270	14696		1.26	5.0E-33	AL163265.2	NT	Homo sapiens chromosome 21 segment HS21C085
10148	22796	30010	0.8	5.0E-33	AW264679.1	EST_HUMAN	hg33111.x1 NCI CGAP L228 Homo sapiens cDNA clone IMAGE:2752491 3'
10149	22796	30011	0.8	5.0E-33	AW264679.1	EST_HUMAN	hg33111.x1 NCI CGAP L228 Homo sapiens cDNA clone IMAGE:2752461 3'
1106	13953		2.16	4.0E-33	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2121	14652	27561	1.04	4.0E-33	AW269387	NT	Homo sapiens RAB1, member RAS oncogene family (RAB1) mRNA
2419	15140		2.02	4.0E-33	AA620621.1	EST_HUMAN	sk51b11.r1 Stragene lung carcinoma 637218 Homo sapiens cDNA clone IMAGE:844317 5' similar to contains Alu repetitive element; contains MER28 repetitive element;
2547	15252	27969	4.15	4.0E-33	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4450	17185	29811	2.15	4.0E-33	AW263349.1	EST_HUMAN	UHH-B12-ah1-o-03-0-U1.x1 NCI CGAP Sub4 Homo sapiens cDNA clone IMAGE:2727149 3'
5318	18122	30779	24.73	4.0E-33	AA053083.1	EST_HUMAN	271408.r1 Stragene colon (R37204) Homo sapiens cDNA clone IMAGE:510038 5' similar to gbX12671.m1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6296	19072	32057	0.87	4.0E-33	8363904	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6296	19072	32058	0.87	4.0E-33	8363904	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
1067	19825		5.5	3.0E-33	BE350127.1	EST_HUMAN	h08g01.x1 NCI CGAP Kdr3 Homo sapiens cDNA clone IMAGE:3140256 3' similar to contains MER28 b3 MER28 repetitive element;
1068	13825		3.89	3.0E-33	BE350127.1	EST_HUMAN	h08g01.x1 NCI CGAP Kdr3 Homo sapiens cDNA clone IMAGE:3146258 3' similar to contains MER28 b3 MER28 repetitive element;
2461	15585		0.92	3.0E-33	AV647851	EST_HUMAN	AV647851 GLC Homo sapiens cDNA clone GLOBIF08 3'
10338	22985	38203	1.04	3.0E-33	AA861510.1	EST_HUMAN	sk32b12.x1 Soares, testis NHT Homo sapiens cDNA clone IMAGE:1407847 3' similar to TR-Q13579 Q13579 MARINER TRANSPOSASE.;
102	12843		3.21	2.0E-33	A1160186.1	EST_HUMAN	q071g03.x1 Soares, fetal liver NHT Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OPR.11 OPR repetitive element;
4386	17122		6.39	2.0E-33	BE160039.1	EST_HUMAN	MR0-HT0405-160300-202-408 HT0405 Homo sapiens cDNA
4626	17693	30285	28.91	2.0E-33	AA626683.1	EST_HUMAN	sk51b11.r1 Stragene lung carcinoma 637218 Homo sapiens cDNA clone IMAGE:844388 5' similar to gbX00734_scl1 TUBULIN BETA-5 CHAIN (HUMAN);
5033	17753	30365	2.75	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
5033	17753	30366	2.75	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
6329	16069	32087	1.81	2.0E-33	AI277492.1	EST_HUMAN	q89601.x1 Soares, NHT Homo sapiens cDNA clone IMAGE:1680161 3'
8968	21698		2.16	2.0E-33	AA052256.1	EST_HUMAN	sk32b103.x1 Soares, fetal liver spleen NHT Homo sapiens cDNA clone IMAGE:1675973 3' similar to gbM26836 TRANSLATIONAL INITIATION FACTOR 2 BETA SUBUNIT (HUMAN);
10513	23156	36384	1.48	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
10513	23159	36385	1.48	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
11046	23716	36885	1.26	2.0E-33	AA463947.1	EST_HUMAN	2x4805.x1 Soares, testis NHT Homo sapiens cDNA clone IMAGE:765469 3' similar to TR-G1283081 G1283081 MARINER TRANSPOSASE.;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8	12635		1.16	1.0E-33	AF003528.1	NT	Homo sapiens X-linked arylidolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5196	17873	30485	2.46	1.0E-33	4502556	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
5501	18266	31168	0.68	1.0E-33	AF109420.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, complete cds
7307	19890	33007	1.04	1.0E-33	M13973.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
9920	25432		0.84	1.0E-33	U00822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
11262	23463	31261	1.83	1.0E-33	AW568818.1	EST_HUMAN	QV3-BN0047.230200-102-403 BN0047 Homo sapiens cDNA
11683	24259	37881	3.32	1.0E-33	U00822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12407	24790		2.21	1.0E-33	A1927191.1	EST_HUMAN	we88c06.x1 NCI CGAP Kd111 Homo sapiens cDNA clone IMAGE:2482410 3'
12570	12635		4.07	1.0E-33	AF003528.1	NT	Homo sapiens X-linked arylidolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12602	24914	31005	1.41	1.0E-33	AF003528.1	EST_HUMAN	AV727809 HTG Homo sapiens cDNA clone HTOCNC12 5'
12780	25034		1.91	9.0E-34	AJ271736.1	NT	Homo sapiens Xq pseudocentromeric region; segment 1/2
2168	14897	27631	0.98	8.0E-34	8022751	NT	Homo sapiens hypothetical protein FLJ10900 (FLJ10900), mRNA
7689	20353	33468	0.98	8.0E-34	BE008882.1	EST_HUMAN	MR4-BT0398-2007100-001-403 BT0398 Homo sapiens cDNA
1428	14173	28558	2.27	7.0E-34	I70845.1	EST_HUMAN	yd15a05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
9600	14173	28569	0.58	7.0E-34	I70845.1	EST_HUMAN	yd15a05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
12191	24682		3.05	7.0E-34	H12866.1	EST_HUMAN	Y114C10.r1 Soares placenta NB2-IP Homo sapiens cDNA clone IMAGE:148722 5'
458	13243	25884	2.3	6.0E-34	U10961.1	NT	Human G2 protein mRNA, partial cds
458	13243	25885	2.3	6.0E-34	U10961.1	NT	Human G2 protein mRNA, partial cds
12011	24544	31107	2.13	6.0E-34	U03086.1	NT	Mus musculus DAB2J2 hair-specific (hnc1-1) gene
1873	14611		2.9	5.0E-34	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
5002	17726	30328	3.61	5.0E-34	J30483.1	NT	Human splicing factor SFP65-1 (SFP-65) mRNA, complete cds
6765	21457	34607	1.37	5.0E-34	AF078178.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10550	23246	36482	2.24	5.0E-34	AB037858.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
11219	23882		1.79	5.0E-34	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
1981	14727	27449	1.84	4.0E-34	AB04887.1	EST_HUMAN	W04c06.x1 NCI CGAP P28 Homo sapiens cDNA clone IMAGE:2249184 3'
5770	18501	31486	0.64	4.0E-34	AA861773.1	EST_HUMAN	ak3501.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1407338 3'
8938	21627	34760	1.26	4.0E-34	BF209778.1	EST_HUMAN	601874G50F1.NH1_MGC_54 Homo sapiens cDNA clone IMAGE:4102213 5'
6138	18916	31886	0.78	3.0E-34	M37277.1	NT	Human Ig gamma H-chain D-region genes, partial cds
11100	23770		3.14	3.0E-34	BF035327.1	EST_HUMAN	001498331FT.NH1_MGC_66 Homo sapiens cDNA clone IMAGE:3962086 5'
8950	21541	34687	1.16	2.0E-34	AF078101.1	EST_HUMAN	we35006.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains MER28.12 M2P28 repetitive element;

Page 266 of 536

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8890	21541	34988	1.16	2.0E-34	AI678101.1	EST_HUMAN	wb35g08.x1 Source_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
11113	23763	37067	1.34	2.0E-34	PE1805	SWISSPROT	MER2812 MER28 repetitive element ;
11113	23763	37058	1.34	2.0E-34	PE1805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
1494	14241	28628	6.53	1.0E-34	P12236	SWISSPROT	ADP ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLATOR 3) (ANT 3)
3883	18416	28055	1.32	1.0E-34	AF003328.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4051	18786	29425	0.97	1.0E-34	AY006397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4051	18786	29426	0.97	1.0E-34	AY006397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4448	17182	31788	3.44	1.0E-34	BE071414.1	EST_HUMAN	RC2-ET0506-240400-016-H08 BT0506 Homo sapiens cDNA
6047	18827	31789	2.05	1.0E-34	BE074052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886969 5'
6047	18827	31789	2.05	1.0E-34	BE074052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886969 5'
9228	21904	36076	0.46	1.0E-34	P23266	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F6
9506	22249	35434	7.1	1.0E-34	AL038635.1	EST_HUMAN	DKFZp694A1563.J1 564 (synonym: hbx2) Homo sapiens cDNA clone DKFZp694A1563 5'
11138	23805	37083	1.39	1.0E-34	BE781780.1	EST_HUMAN	601470562F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
11138	23805	37084	1.39	1.0E-34	BE781780.1	EST_HUMAN	601470562F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
11153	23820	37100	1.82	1.0E-34	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12372	25350		1.65	1.0E-34	AA007087.1	EST_HUMAN	oc31c11.s1 NCI_CGAP_KB11 Homo sapiens cDNA clone IMAGE:1351316 3' similar to gb:368203
12953	24949		4.22	1.0E-34	AL163210.2	NT	TYROSINE-PROTEIN KINASE RECEPTOR FLT4 PRECURSOR (HUMAN);
3636	19389	29029	1.2	9.0E-35	AW683302.1	EST_HUMAN	hnt7506.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2988787 5'
216	13028		7.71	8.0E-35	6031190	NT	Homo sapiens prohibitin (PHB) mRNA
1730	14472	27171	3.43	8.0E-35	BF389637.1	EST_HUMAN	hna33a08.x1 NCI_CGAP_KB11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:075912
1730	14472	27172	3.43	8.0E-35	BF389637.1	EST_HUMAN	hna33a08.x1 NCI_CGAP_KB11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:075912
4814	17545	30170	2.69	8.0E-35	BF183195.1	EST_HUMAN	OT5912 DIACYLGLYCEROL KINASE IOTA ;
10589	23283	39522	2.42	8.0E-35	BE378480.1	EST_HUMAN	601809598F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040324 5'
12119	24511		3.95	8.0E-35	BF508282.1	EST_HUMAN	601239468F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3908513 5'
6933	19162	32163	2.05	7.0E-35	11425417	NT	602184624T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300660 3'
1391	14138	26815	1.83	8.0E-35	AA757115.1	EST_HUMAN	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
1900	14588	27409	2.09	8.0E-35	6005975	NT	hna33a03.s1 Source_Jewis_AH-T Homo sapiens cDNA clone 1308387 3'
4030	19775	29406	0.84	6.0E-35	AW297191.1	EST_HUMAN	Homo sapiens zinc finger protein 288 (ZNF288), mRNA
							U1H-BW0-498-Q-U1.s1 NCI_CGAP_Sub0 Homo sapiens cDNA clone IMAGE:2731433 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7798	20493	33615	3.84	6.0E-35	6005021	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
8610	21302	34445	0.93	6.0E-35	X94232.1	NT	H.sapiens mRNA for novel T-cell activation protein
8610	21302	34446	0.83	6.0E-35	X94232.1	NT	H.sapiens mRNA for novel T-cell activation protein
9565	22218	35403	0.86	6.0E-35	AB002384.1	NT	Human mRNA for KIAA0368 gene, partial cds
9603	22454	35656	3.17	6.0E-35	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
1704	14447	27149	1.39	5.0E-35	X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
2787	15492	28232	1.07	5.0E-35	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
3008	16776	28424	1.7	5.0E-35	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
4378	17113	26746	1.7	5.0E-35	AF023298.1	NT	Homo sapiens cdk2 kinase (CLK2), protein, cdk1, glucocorticoid pseudogene, and thrombospondin3 (THBS3) gene, partial cds
8084	20778		3.89	5.0E-35	BE80992.1	EST_HUMAN	601431984F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3917228 5'
8109	20803	33938	2.35	5.0E-35	A1208765.1	EST_HUMAN	q38a05.x1 Scores: tests_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN Q92539 HYPOTHETICAL PROTEIN KIA0249 ;
8109	20803	33937	2.35	5.0E-35	A1208765.1	EST_HUMAN	q38a05.x1 Scores: tests_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN Q92539 HYPOTHETICAL PROTEIN KIA0249 ;
11130	23798		2.48	5.0E-35	AA001786.1	EST_HUMAN	z184f12.r1 Scores: fetal_liver_spleen_1NF1LS_S1 Homo sapiens cDNA clone IMAGE:428015 5'
1413	14161	28845	16.86	4.0E-35	BE257907.1	EST_HUMAN	Y08a07.r1 Scores: fetal_liver_spleen_1NF1LS_Homo sapiens cDNA clone IMAGE:3350408 5'
1811	14551	27285	4.87	4.0E-35	H97193.1	EST_HUMAN	PTB5 repetitive element ;
4753	17485		0.72	4.0E-35	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
7108	19796		1.81	4.0E-35	BE950127.1	EST_HUMAN	h09g01.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER20.53
8416	21109	34248	8.88	4.0E-35	AL046598.1	EST_HUMAN	MERC9 repetitive element ;
11729	24322	37648	1.38	4.0E-35	AW303317.1	EST_HUMAN	DKFZp434L148.1 r1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434L148.1
1573	14320	27006	7.78	3.0E-35	BE288182.1	EST_HUMAN	xy1703.x1 Scores: NFI_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element contains MER19.12 MER19 repetitive element ;
2330	15055		1.5	3.0E-35	AF224492.1	NT	801125280F1 NIH_MGC 8 Homo sapiens cDNA clone IMAGE:3345063 5'
5266	18062	30690	31.47	3.0E-35	BF433100.1	EST_HUMAN	Homo sapiens phospholipid scramblase 1 gene, complete cds
5266	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	7n26e08.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7
5266	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	7n26e09.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9388	22080		1.42	3.0E-35	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10074	22722	35039	1.12	3.0E-35	AW003083.1	EST_HUMAN	vr03a05.x1 NCL_GCAP_G08 Homo sapiens cDNA clone IMAGE:2480432.3 similar to SW.POL.1 HUMAN P10206 RETROVIRUS-RELATED POL. POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE]; K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932.5 similar to REPETITIVE ELEMENT
108	15535	25597	1.88	2.0E-35	N88965.1	EST_HUMAN	AG71F Heart Homo sapiens cDNA clone AG71
1165	13919	26582	1.55	2.0E-35	TT1909.1	EST_HUMAN	Homo sapiens mRNA for Gab2, complete cds
2215	14943	27683	5.73	2.0E-35	AB018413.1	NT	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
3306	16095	28714	1.12	2.0E-35	8612459	NT	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
3308	16098	28715	1.12	2.0E-35	8612459	NT	Homo sapiens mRNA for KIAA0595 protein, partial cds
3545	16300		0.94	2.0E-35	AB020702.1	NT	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP-4328
3880	18640	28279	0.78	2.0E-35	BE247575.1	EST_HUMAN	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP-4328
3980	19640	28280	0.78	2.0E-35	BE247575.1	EST_HUMAN	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP-4328
4621	17356		2.57	2.0E-35	H40239.1	EST_HUMAN	Y41812.1 Scores fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:274079.5
5486	18294	31192	2.7	2.0E-35	BF332417.1	EST_HUMAN	QV0-BT0701-270400-189-504 BT0701 Homo sapiens cDNA
7004	19895	32749	0.95	2.0E-35	BE832638.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7004	19898	32750	0.95	2.0E-35	BE832638.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7776	20471	33593	0.45	2.0E-35	AV723718.1	EST_HUMAN	AV723718 HTB Homo sapiens cDNA clone HTBAY10.5
7776	20471	33594	0.45	2.0E-35	AV723718.1	EST_HUMAN	AV723718 HTB Homo sapiens cDNA clone HTBAY10.5
10697	23398	36626	2.24	2.0E-35	X59417.1	NT	H. sapiens PROS-27 mRNA
11817	18294	31192	1.28	2.0E-35	BF332417.1	EST_HUMAN	QV0-BT0701-270400-189-504 BT0701 Homo sapiens cDNA
11889	19093	28714	1.72	2.0E-35	8612459	NT	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
11889	19098	28715	1.72	2.0E-35	8612459	NT	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
12062	24577	31120	1.38	2.0E-35	BE904978.1	EST_HUMAN	601496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898999.5
12062	24577	31121	1.38	2.0E-35	BE904978.1	EST_HUMAN	601496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898999.5
12572	24900		5.98	2.0E-35	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
12889	19536	25597	1.98	2.0E-35	N88965.1	EST_HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932.5 similar to REPETITIVE ELEMENT
45	12874	25498	6.81	1.0E-35	AA631948.1	EST_HUMAN	frnt16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
45	12874	25497	6.81	1.0E-35	AA631948.1	EST_HUMAN	frnt16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
735	13609	29166	19.5	1.0E-35	AW380473.1	EST_HUMAN	IL2-ST0162-131099-008-d12 ST0162 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
736	13509	28166	19.6	1.0E-35	AW388473.1	EST_HUMAN	IL2-ST0162-131089-008-d12 ST0162 Homo sapiens cDNA
889	13558		1.3	1.0E-35	T87947.1	EST_HUMAN	y563a01.1 Scores fetal liver spleen 1NF15 Homo sapiens cDNA clone IMAGE:115752 5' similar to SP-A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN;
2844	15258	27906	1.68	1.0E-35	7705994	NT	Homo sapiens hypothetical protein LOC51233) mRNA
2770	15475	28217	1.09	1.0E-35	BE350127.1	EST_HUMAN	h00901.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
2770	15475	28218	1.00	1.0E-35	BE350127.1	EST_HUMAN	h00901.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
3140	15904	28549	1.81	1.0E-35	8006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCIB1L) mRNA
3161	15924	28570	3.3	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLOC0608 3'
3161	15924	28571	3.3	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLOC0608 3'
4388	17125	29756	3.93	1.0E-35	7656905	NT	Mus musculus actin receptor interacting protein 1 (Arp1-pending), mRNA
4388	17125	29767	3.93	1.0E-35	7656905	NT	Mus musculus actin receptor interacting protein 1 (Arp1-pending), mRNA
5423	18222	30084	1.41	1.0E-35	11526238	NT	Homo sapiens chromatin assembly factor 1, subunit B (p60) (CHAF1B), mRNA
7383	20063	33141	0.86	1.0E-35	AB033105.1	NT	Homo sapiens KIAA0845 gene product (KIAA0845), mRNA
7641	20211	33311	1.18	1.0E-35	11418002	NT	Homo sapiens KIAA0845 gene product (KIAA0845), mRNA
9442	25125	35297	2.16	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLAGE3 Homo sapiens cDNA clone PLAGE3000382 3'
9442	25125	35298	2.16	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLAGE3 Homo sapiens cDNA clone PLAGE3000382 3'
10477	23123	36352	0.7	1.0E-35	BF568594.1	EST_HUMAN	ncs06006.x1 NCI CGAP_P728 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR-O31341
10477	23123	36353	0.7	1.0E-35	BF568594.1	EST_HUMAN	ncs06006.x1 NCI CGAP_P728 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR-O31341
11758	24348	37690	1.46	1.0E-35	AB028900.1	NT	Homo sapiens mRNA for KIAA1057 protein, partial cds
11758	24348	37681	1.46	1.0E-35	AB028900.1	NT	Homo sapiens mRNA for KIAA1057 protein, partial cds
11758	24359		1.91	1.0E-35	AE25119.1	EST_HUMAN	promine-7.D01.1, bivariate Homo sapiens cDNA 5'
11977	25373		1.37	1.0E-35	11418274	NT	Homo sapiens fibulin 1 (FBLN1), mRNA
12121	24613		1.63	1.0E-35	11418110	NT	Homo sapiens casein kinase 1, epsilon (CSNK1E), mRNA
12471	24637		2.13	1.0E-35	BE762832.1	EST_HUMAN	801584633FT NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3039885 5'
9129	21817	34983	0.96	8.0E-36	AA348480.1	EST_HUMAN	EST54688 Hippocampus II Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus 9, 5' LTR
2831	15697	28344	1.1	7.0E-36	AW857570.1	EST_HUMAN	GM1-CT0315-091259-063-407 CT0315 Homo sapiens cDNA
3118	18861		3.84	7.0E-36	4557498	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
7654	20224	33327	5.92	7.0E-36	U06672.1	NT	Human carcinoembryonic antigen gene family member 12 (CEM12) gene, exons L and LN
7654	20224	33328	5.92	7.0E-36	U06672.1	NT	Human carcinoembryonic antigen gene family member 12 (CEM12) gene, exons L and LN

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1908	14734	27466	2	6.0E-36	7706822	NT	Homo sapiens nhjurn 2 (NINJ2), mRNA
2418	15139		5.58	6.0E-36	AB035346.1	NT	Homo sapiens TGL6 gene, exon 12
3630	16363	29023	0.71	6.0E-36	BF515101.1	EST_HUMAN	UHLBW1-ant-c-12-QJ1 at NCI_OGAP Sub7 Homo sapiens cDNA clone IMAGE:3083542 3'
5248	19054	30682	3.54	6.0E-36	AI435186.1	EST_HUMAN	h93600.x1 Scores_NSF_F8_WW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126105 3' similar to g6m11949 PANCREATIC SECRETORY TRYPSIN INHIBITOR PRECURSOR (HUMAN); h069602.x1 NCI_OGAP Cor14 Homo sapiens cDNA clone IMAGE:3039827 3' similar to SW:MA2_HUMAN
7009	19701	32796	3.57	6.0E-36	AW780143.1	EST_HUMAN	PZ282 IMPORTIN ALPHA-2 SUBUNIT ;
8550	21242	34395	2.33	6.0E-36	AF203161.1	NT	Homo sapiens synovial precursor, mRNA, complete cds
10125	22773		0.51	6.0E-36	CI 6827.1	EST_HUMAN	CI 6827 Clontech human acra polyA+ mRNA (R6572) Homo sapiens cDNA clone GEN-535C11 5'
11536	24136	37443	3.11	6.0E-36	AI980499.1	EST_HUMAN	h95c09.x1 NCI_OGAP CLL1 Homo sapiens cDNA clone IMAGE:2107024 3' similar to contains MER8 I2
134	12949	25592	10.74	6.0E-36	AJ271735.1	NT	MER8 repetitive element ;
2755	15460	28202	5.75	6.0E-36	BE388436.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region, segment 1/2
3500	16352	28891	1.45	6.0E-36	AL163209.2	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
4736	17468	30104	2.15	6.0E-36	5720729	NT	Homo sapiens chromosome 21 segment HS21C089
4736	17468	30105	2.15	6.0E-36	5720729	NT	Homo sapiens APIS-like 1 (APISL1), mRNA
7896	20350	33484	0.61	6.0E-36	11079227	NT	Homo sapiens N-ethylmaleimide-sensitive factor (NSF), mRNA
11867	12848	25592	8.53	6.0E-36	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
12168	24650	31103	3.45	6.0E-36	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1203	13955	28619	1.69	4.0E-36	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1423	14170	28656	1.03	4.0E-36	P10266	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
1640	14388	27074	1.91	4.0E-36	BE382874.1	EST_HUMAN	601289574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628386 5'
2218	16147		2.13	4.0E-36	AW247772.1	EST_HUMAN	2820020 Sprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820020 5'
3349	19108	28763	0.82	4.0E-36	BE389286.1	EST_HUMAN	601282268F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3004168 5'
3349	19108	28764	0.82	4.0E-36	BE389286.1	EST_HUMAN	601282268F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3004168 5'
6628	18426		0.84	4.0E-36	R64023.1	EST_HUMAN	YF1805.1 Scores placenta N22-4p Homo sapiens cDNA clone IMAGE:198715 5'
5964	18749	31707	2.33	4.0E-36	11467041	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), transcript variant 3, mRNA
7553	20223	33326	1.63	4.0E-36	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exon 2-20
8483	21146	34285	1.62	4.0E-36	D87678.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8483	21146	34286	1.62	4.0E-36	D87678.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10909	23588	38835	2.84	4.0E-36	AA400370.1	EST_HUMAN	zu68010.1 Scores_beta_NHT Homo sapiens cDNA clone IMAGE:743250 5'
12183	24655		2.00	4.0E-36	11420518	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
12227	25199		7.3	4.0E-36	AV753629.1	EST_HUMAN	AV753628 TP Homo sapiens cDNA clone TPGABH01 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12798	25047		1.44	4.0E-36	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
680	13455	26100	2.58	3.0E-36	AF059810.1	NT	Homo sapiens neuron III-alpha gene, partial cds
1484	14231	26917	1.32	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
1484	14231	26918	1.32	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
2367	18022	27577	1.21	3.0E-36	7602401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4467	17203	28529	6.88	3.0E-36	10181139	NT	Mus musculus junctional protein 1 (Jpn1-pending), mRNA
11050	23720	30891	1.59	3.0E-36	BF035327.1	EST_HUMAN	601459531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5'
3167	19630	28579	2.38	2.0E-36	BE289267.1	EST_HUMAN	601106343F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3342708 5'
4904	17631	30246	5.45	2.0E-36	AW890376.1	EST_HUMAN	QV00-OT0030-240300-174-H04 OT0030 Homo sapiens cDNA
5336	18108	30892	3.1	2.0E-36	AF267747.1	NT	Mus musculus p47-phox gene, complete cds
6788	18550	31471	3.95	2.0E-36	T08756.1	EST_HUMAN	EST00848 Infant Brain, Berto Soares Homo sapiens cDNA clone HIBB128 5' and
6481	19248	32248	12.22	2.0E-36	T69628.1	EST_HUMAN	yc44a07.11 Strategene liver (#837224) Homo sapiens cDNA clone IMAGE:83508 5'
9288	21955	35126	1.07	2.0E-36	BF512794.1	EST_HUMAN	UI-HBW1-enu-e-11-0-U1a1 NCJ CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071132 3'
9449	21950	35172	0.79	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9449	21969	35173	0.79	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
865	13634	26304	1.81	1.0E-36	BE408310.1	EST_HUMAN	601300838F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
2141	14871	27803	1	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131189-021-H07 HT0217 Homo sapiens cDNA
2141	14871	27804	1	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131189-021-H07 HT0217 Homo sapiens cDNA
2190	14828	27664	1.36	1.0E-36	BF073781.1	EST_HUMAN	602139463F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272886 5'
3330	18090		1.16	1.0E-36	AF158682.1	NT	Homo sapiens human endogenous retrovirus W prov-19 protease (pro) gene, partial cds
5810	18569	31627	1.29	1.0E-36	4827064	NT	Homo sapiens zinc finger protein 147 (zinc-finger protein) (ZNF147) mRNA
6090	18888		4.19	1.0E-36	AB87714.1	EST_HUMAN	w637c12x1 NCJ CGAP_G08 Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu repetitive element
6296	19098	32052	1.21	1.0E-36	R26012.1	EST_HUMAN	yg39g10.11 Soares Infant Brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP-CALP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6298	19099	32053	1.21	1.0E-36	R26012.1	EST_HUMAN	yg39g10.11 Soares Infant Brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP-CALP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6582	18245	32359	0.73	1.0E-36	AL120542.1	EST_HUMAN	DKFZp761A228 J1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A228 5'
7326	20009	33087	0.85	1.0E-36	11426108	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA
7326	20009	33088	0.85	1.0E-36	11426108	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA
7800	20555	33679	5.13	1.0E-36	AA148034.1	EST_HUMAN	z051a12.11 Strategene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
7880	20555	33680	5.13	1.0E-36	AA148034.1	EST_HUMAN	z051a12.11 Strategene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7952	20647	33770	1.34	1.0E-36	AA420467.1	EST_HUMAN	nc060808.t1 NCI CGAP_P1 Homo sapiens cDNA clone IMAGE:745670
7952	20647	33771	1.34	1.0E-36	AA420467.1	EST_HUMAN	nc060808.t1 NCI CGAP_P1 Homo sapiens cDNA clone IMAGE:745670
8079	20773	33002	0.81	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYR01 Homo sapiens cDNA clone THYR01001033 5'
8079	20773	33003	0.61	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYR01 Homo sapiens cDNA clone THYR01001033 5'
8927	21618	34762	2.71	1.0E-36	AW103658.1	EST_HUMAN	aw103657.t1 NCI CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2614357 3'
10014	22662	35878	3.88	1.0E-36	BF364169.1	EST_HUMAN	QV3-NN1023-010000-160-101 NN1023 Homo sapiens cDNA
10226	22974	36086	0.56	1.0E-36	AW855888.1	EST_HUMAN	RC3-C10279-040500-017-410 G10279 Homo sapiens cDNA
10226	22974	36087	0.56	1.0E-36	AW855888.1	EST_HUMAN	RC3-C10279-040500-017-410 G10279 Homo sapiens cDNA
10867	23547	36795	3.3	1.0E-36	AW687636.1	EST_HUMAN	QK3-NN0061-140400-147-112 NN0061 Homo sapiens cDNA
11353	24044	37347	4.17	1.0E-36	AW504143.1	EST_HUMAN	UHF-BND-ale-c3-Q-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078277 5'
11353	23959	37302	1.45	1.0E-36	AB05536.1	EST_HUMAN	RC-BT091-210166-110 B1091 Homo sapiens cDNA
11353	23959	37303	1.45	1.0E-36	AB05536.1	EST_HUMAN	RC-BT091-210166-110 B1091 Homo sapiens cDNA
12060	24576		3.81	1.0E-36	11418177	NT	Homo sapiens Run GTPase activating protein 1 (RANGAP1), mRNA
12501	24855		3.03	1.0E-36	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
12747	25011		3.23	1.0E-36	AF202723.1	NT	Homo sapiens Sac1-like-84 domain protein 2 (SUN2), mRNA, partial cds
7281	19965	33042	2.12	9.0E-37	AW006277.1	EST_HUMAN	w80607.t1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:2504245 3'
7281	19965	33043	2.12	9.0E-37	AW006277.1	EST_HUMAN	w80607.t1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:2504245 3'
12309	24733		1.35	9.0E-37	W22018.1	EST_HUMAN	73D4 Human retina cDNA, Tsp509I-digested, full-length Homo sapiens cDNA not directional
3360	16106	28765	0.99	8.0E-37	4757979	NT	Homo sapiens chimerin (chimerin) 2 (CHN2), mRNA
5168	17977		1.58	8.0E-37	BE968077.1	EST_HUMAN	CMO-UT0003-050800-503-009 UT0003 Homo sapiens cDNA
5738	18590	31451	3.75	8.0E-37	BE350127.1	EST_HUMAN	H08901.t1 NCI CGAP_K0413 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.13
5738	18590	31452	3.75	8.0E-37	BE350127.1	EST_HUMAN	H08901.t1 NCI CGAP_K0413 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.13
5767	18578	31507	8.24	8.0E-37	AW840840.1	EST_HUMAN	MER29 repetitive element;
7764	20478	33904	6.22	8.0E-37	X87344.1	NT	MER29 repetitive element;
1262	14011		3.03	7.0E-37	AL042800.1	EST_HUMAN	RC1-CN0008-210100-012-009_1 CN0008 Homo sapiens cDNA
1738	14480	27179	0.97	7.0E-37	AF111167.2	NT	H. sapiens DNA, DMB, HLA-Z, IFP2, LMP7, TAP1, LMP7, TAP2, DOB, DQB2 and RN08, 9, 13 and 14 genes
1738	14480	27180	0.97	7.0E-37	AF111167.2	NT	DKF-Zp434E0422.t1 434 (synonym: hhes3) Homo sapiens cDNA clone DKF-Zp434E0422 5'
10657	23348	36595	8.69	7.0E-37	AB17700.1	EST_HUMAN	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
							Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
							wk25611.t1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413341 3' similar to contains PTR5.12
							PTR5 repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10811	23494	36729	2.25	7.0E-37	AF530702.1	EST_HUMAN	hm7g03.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165140 3' similar to contains L1.b3 L1 repetitive element
8338	21031	34168	1.34	6.0E-37	AF160889.1	NT	Homo sapiens protocadherin alpha 10 alternative isoform (PCDH-alpha10) mRNA, complete cds
12624	24929		2.94	6.0E-37	AF202723.1	NT	Homo sapiens Sad1-uno-84 domain protein 2 (SUN2) mRNA, partial cds
6002	18783	31744	3.9	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6002	18783	31745	3.9	6.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
8054	21346	34490	0.9	5.0E-37	AV760211.1	EST_HUMAN	AV760211 NPC Homo sapiens cDNA clone NPOBHG09 5'
10837	23519		4	6.0E-37	7657117	NT	Homo sapiens glycine C-acetyltransferase (2-amino-3-hydroxybutyrate-CoA ligase) (GCAT), mRNA
12055	24572		6.96	5.0E-37	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
2423	15144	27877	2.12	4.0E-37	AA702794.1	EST_HUMAN	280604.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
6194	18970	31945	0.81	4.0E-37	AA794902.1	EST_HUMAN	RC8-UM0014-210200-021-H05 Homo sapiens cDNA clone IMAGE:1405442 3'
9256	21935	35109	0.74	4.0E-37	AA843806.1	EST_HUMAN	sk06c02.x1 Soares_parathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:1405442 3'
2010	14745	27472	3.2	3.0E-37	AL048958.1	EST_HUMAN	DKFZp434L2418.J1 434 (synonym: hbc3) Homo sapiens cDNA clone DKFZp434L2418
2010	14745	27473	3.2	3.0E-37	AL048958.1	EST_HUMAN	DKFZp434L2418.J1 434 (synonym: hbc3) Homo sapiens cDNA clone DKFZp434L2418
2095	15731		3.15	3.0E-37	AW961150.1	EST_HUMAN	EST173222 IMAGE resequencing, MAGF Homo sapiens cDNA
5774	18565	31494	0.92	3.0E-37	AL138274.1	EST_HUMAN	DKFZp4547G087.J1 547 (synonym: hbr1) Homo sapiens cDNA clone DKFZp4547G087 5'
7455	20129	33221	0.71	3.0E-37	A1749852.1	EST_HUMAN	434005.x1 Barisfeld colon HPLRB7 Homo sapiens cDNA clone IMAGE:2373988 3' similar to TRCQ19537
372	13197	26842	0.88	2.0E-37	D98790.1	NT	Q19537 SIMILAR TO POGO ELEMENT
372	13197	26843	0.88	2.0E-37	D98790.1	NT	Homo sapiens mRNA for AML1, complete cds
1058	13816	28477	2.84	2.0E-37	AU131202.1	EST_HUMAN	Homo sapiens mRNA for AML1, complete cds
1058	13816	28478	2.84	2.0E-37	AU131202.1	EST_HUMAN	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002188 5'
1856	14882	27405	1.97	2.0E-37	AL163247.2	NT	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002188 5'
3873	16623	29281	4.78	2.0E-37	4503210	NT	Homo sapiens chromosome 21 segment HS21C047
4998	17693		0.93	2.0E-37	AL163284.2	NT	Homo sapiens cytochrome P450, subfamily XXVIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A15) mRNA
5304	18109		0.86	2.0E-37	BF093327.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
6591	18326	32833	3.46	2.0E-37	AA346720.1	EST_HUMAN	607498331F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3882088 5'
7895	20590	33720	0.46	2.0E-37	BE587764.1	EST_HUMAN	EST172831 Fetal heart II Homo sapiens cDNA 5' end
7895	20590	33721	0.46	2.0E-37	BE587764.1	EST_HUMAN	607067634F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
7895	20590	33722	0.46	2.0E-37	BE587764.1	EST_HUMAN	607067634F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
7937	20632	33759	2.88	2.0E-37	BF204032.1	EST_HUMAN	607869157F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111408 5'
11549	24148	37459	11.22	2.0E-37	AF176013.1	NT	Homo sapiens 1 domain containing protein 1 isoform b (JDP1) mRNA, complete cds
12764	25037		3.54	2.0E-37	11417972	NT	Homo sapiens pascodiol (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
2081	14813	27548	4.93	1.0E-37	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081

Page 274 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3192	15965		1.06	1.0E-37	AW862082.1	EST_HUMAN	RC3-OT0347-210400-016-003 CT0347 Homo sapiens cDNA
3943	16993	29332	0.72	1.0E-37	AF189011.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4888	17615	30224	2.35	1.0E-37	BF371719.1	EST_HUMAN	OV6-FN0180-280700-318-010 FN0180 Homo sapiens cDNA
5914	18999		0.94	1.0E-37	79053960	NT	Mus musculus otogelin (Otog) mRNA
8113	20807	33940	1.25	1.0E-37	BES46032.1	EST_HUMAN	601072419FT NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458308 5'
8634	21926	34488	2.57	1.0E-37	AA171408.1	EST_HUMAN	7421602.1 Strategene neurospiralidum (#837231) Homo sapiens cDNA clone IMAGE:3458308 5'
10597	23281	36529	2.96	1.0E-37	M22878.1	NT	contains L1, L2, L1 repetitive element;
12363	24766		2.81	1.0E-37	BE717814.1	EST_HUMAN	OM8-FT0098-140700-243-407 FT0098 Homo sapiens cDNA
6680	18483	31402	2	9.0E-38	10048482	NT	Human somatic cytochrome c (HCT) processed pseudogene, complete cds
1200	13952	26916	2.02	8.0E-38	11436955	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo (LOC56768), mRNA
2502	15219	27062	1.8	8.0E-38	BF340221.1	EST_HUMAN	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
12420	13952	26916	1.6	8.0E-38	11436955	NT	602018401FT NCL_OGAP_Bme7 Homo sapiens cDNA clone IMAGE:4153982 5'
4197	16938	28563	0.73	7.0E-38	H18092.1	EST_HUMAN	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
5039	17758		1.31	7.0E-38	AF287263.1	NT	yn5107.1 Soares adult brain N2691B557 Homo sapiens cDNA clone IMAGE:171873 5'
3037	15803	28450	1.2	6.0E-38	BF033003.1	EST_HUMAN	Mus musculus A1P-binding cassette 1, sub-family A, member 1 (Abcat1) gene, complete cds
5502	18300	31199	1.6	6.0E-38	11425114	NT	601455722FT NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3856348 5'
5502	18300	31200	1.6	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
7228	19913	32866	0.57	8.0E-38	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
11918	24480		2.57	8.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12395	24783	31038	12.79	9.0E-38	AB002056.1	NT	Homo sapiens DNA for Human P230M, complete cds
12787	25161	30900	1.7	8.0E-38	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
710	13484	28133	1.38	6.0E-38	AW671819.1	EST_HUMAN	EST333908 IMAGE resequences, MAGI, Homo sapiens cDNA
2445	15173	27812	0.89	5.0E-38	AJ237740.1	NT	Homo sapiens RIBL1R gene (partial), exon 8
3840	16446	29086	0.85	5.0E-38	7549804	NT	Homo sapiens deiodinase, iodotyrosine, type II (DIO2), transcript variant 2, mRNA
3917	16967	29307	0.92	5.0E-38	T83107.1	EST_HUMAN	y404007.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:110749 5' similar to SP-OLF3_MOUSE P23275 OLFATORY RECEPTOR
3917	16967	29308	0.92	5.0E-38	T83107.1	EST_HUMAN	y404007.1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:110749 5' similar to SP-OLF3_MOUSE P23275 OLFATORY RECEPTOR
6930	19065	32712	1.48	5.0E-38	BE871610.1	EST_HUMAN	SP-OLF3_MOUSE P23275 OLFATORY RECEPTOR
118	12398	25675	4.59	4.0E-38	Z25466.1	NT	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
118	12398	25676	4.59	4.0E-38	Z25466.1	NT	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
2093	14824		5.25	3.0E-38	AF003630.1	NT	Homo sapiens homeobox protein CDXA (CDXA) gene, complete cds and flanking repeat regions
3684	16437		2.19	3.0E-38	7549807	NT	Homo sapiens HIRA interacting protein 4 (dnal-1 like) (HIRA4), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3836	16587	29224	1.76	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
3836	16587	29225	1.76	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
4574	17309		1.47	3.0E-38	BE276901.1	EST_HUMAN	601157633F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3504272 5'
8655	25097	32430	8.11	3.0E-38	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
7144	16831	32900	0.66	3.0E-38	AW302461.1	EST_HUMAN	sw04d01.ct NCL_CGAP_Bln53 Homo sapiens cDNA clone IMAGE:2827009 3'
7488	20160	32352	8.26	3.0E-38	BF373694.1	EST_HUMAN	GMS-F10181-140700-241-07 F10181 Homo sapiens cDNA
8548	21240	34383	2.1	3.0E-38	H85494.1	EST_HUMAN	yw85b04.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:249775 5'
8548	21240	34384	2.1	3.0E-38	H85494.1	EST_HUMAN	yw85b04.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:249775 5'
8972	22522		2.24	3.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
12630	17898	30488	1.65	3.0E-38	11435047	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
49	12878	29504	1.4	2.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
1359	14106	26781	2.89	2.0E-38	5902087	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
1641	14387	27076	2.21	2.0E-38	AA437353.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NIHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to SW:MA12_RABIT P45701 MANINOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
1641	14387	27078	2.21	2.0E-38	AA437353.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NIHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to SW:MA12_RABIT P45701 MANINOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
2408	16129	27865	1.45	2.0E-38	W76571.1	EST_HUMAN	z065g09.r1 Soares_fetal_NBRH19W Homo sapiens cDNA clone IMAGE:345984 5'
5632	18427	31339	0.69	2.0E-38	Z26934.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
5632	18427	31340	0.69	2.0E-38	Z26934.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
7619	20285	33395	1.46	2.0E-38	AV721103.1	EST_HUMAN	AV721103 HTB Homo sapiens cDNA clone HTBARH11 5'
8392	21075		4.39	2.0E-38	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
8793	21485	34531	0.66	2.0E-38	F00440.1	EST_HUMAN	HSC18F031 normalized infant brain cDNA Homo sapiens cDNA clone c-1803
8894	21555	34700	2.04	2.0E-38	AF069755.1	NT	Homo sapiens orphan G protein-coupled receptor HQ20 (HG20) mRNA, complete cds
9121	21809		1.06	2.0E-38	BE222256.1	EST_HUMAN	hu02g02.ct NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166130 3' similar to TR:O02710 O02710
10346	22993	98212	1.71	2.0E-38	D63479.2	NT	GAG POLYPROTEIN ;
11200	23865	37151	1.37	2.0E-38	AA595490.1	EST_HUMAN	Homo sapiens mRNA for KIAA0145 protein, partial cds
11200	23865	37152	1.37	2.0E-38	AA595490.1	EST_HUMAN	nc34g03.s1 NCL_CGAP_P123 Homo sapiens cDNA clone IMAGE:1102812 3' similar to TR:E212316
11472	24073	37382	5.79	2.0E-38	BE1712700.1	EST_HUMAN	E212316 NADP DEPENDENT LEUKOTREINE BA 12-HYDROXYDEHYDROGENASE ;
11636	24235	37557	3.52	2.0E-38	AF160501.1	NT	nc34g03.s1 NCL_CGAP_P123 Homo sapiens cDNA clone IMAGE:1102812 3' similar to TR:E212316
							E212316 NADP DEPENDENT LEUKOTREINE BA 12-HYDROXYDEHYDROGENASE ;
							QV2-H10698-080900-293-003 H10698 Homo sapiens cDNA
							Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds

Page 276 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11638	24235	37658	3.52	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
11971	24517		3.05	2.0E-38	AV726988.1	EST_HUMAN	AV726988 HTC Homo sapiens cDNA clone HTCA3407 5'
11973	24518		2.06	2.0E-38	AB012723.1	NT	Homo sapiens gene for fibroblast protein, complete cds
12260	24705	31081	6.46	2.0E-38	H15641.1	EST_HUMAN	CHR220580 Chromosome 22 exon Homo sapiens cDNA clone C22_788 5'
12323	24742		1.43	2.0E-38	S74908.1	NT	E1 beta-pyruvate dehydrogenase beta (promoter) [human, placenta, Genomic, 1280 nt]
12777	25031		3.76	2.0E-38	11418248	NT	Homo sapiens sulfotransferase-related protein (SULT2B3), mRNA
1071	13829		2.55	1.0E-38	AA401570.1	EST_HUMAN	zfa202.11 Source, testis, NIH Homo sapiens cDNA clone IMAGE:742539 5' similar to contains element MER19 repetitive element:
1992	14728	27450	2.53	1.0E-38	4855288	NT	Homo sapiens guanine nucleotide binding protein-11a 1 (GNL1), mRNA
2012	14747	27475	1.11	1.0E-38	7861989	NT	Homo sapiens KIAA0173 gene product (KIAA0173), mRNA
2489	15216	27960	2.34	1.0E-38	AF270831.1	NT	Homo sapiens cyclin K (CCNK) gene, exon 7
4290	17029	29655	1.23	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS210303
4290	17029	29656	1.23	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS210303
4558	17283	29621	1	1.0E-38	8922543	NT	Homo sapiens hypothetical protein FLJ10800 (FLJ10800), mRNA
5937	18719	31677	4.71	1.0E-38	7303390	NT	Mus musculus doggin (Dog), mRNA
5937	18719	31678	4.71	1.0E-38	7303390	NT	Mus musculus doggin (Dog), mRNA
7304	19987	33063	3.16	1.0E-38	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
9051	21740	34898	0.71	1.0E-38	11422250	NT	Homo sapiens hypothetical protein FLJ10800 (FLJ10800), mRNA
9310	21977	36150	5.13	1.0E-38	BE390127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146258 3' similar to contains MER29.13
10301	22948	36103	0.59	1.0E-38	R18512.1	EST_HUMAN	MER29 repetitive element:
11588	24187	37033	1.28	1.0E-38	7682108	NT	Y08008.t1 Source infant brain (NIB) Homo sapiens cDNA clone IMAGE:30488 5'
12118	25140		2.2	1.0E-38	AL163284.2	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
53	12882	25510	15.3	8.0E-39	4502312	NT	Homo sapiens chromosome 21 segment HS210084
1373	14121	26798	1.45	8.0E-39	4758229	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 18kD (ATP6C) mRNA
1821	14590		1.27	8.0E-39	AI823404.1	EST_HUMAN	Homo sapiens estrogen receptor-binding fragment-associated gene 9 (EBAG9) mRNA
2087	14819	27550	5.79	7.0E-39	AL163272.2	NT	WH3F10.x1 NCI_CGAP_KH11 Homo sapiens cDNA clone IMAGE:2984461 3' similar to TRIP7890 P87800
10711	23400	36939	2.24	6.0E-38	BF331829.1	EST_HUMAN	POL PROTEIN:
12896	24979		1.06	6.0E-39	BE670394.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS210207
987	13750	26412	1.57	5.0E-39	AF003528.1	NT	QV1-BT08031-04900-357-042 BT08031 Homo sapiens cDNA
							7e34c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WP-R151.6
							CEW0828:
							Homo sapiens X-linked arylsulphatase protein gene (EDA), exon 2 and flanking repeat regions

Page 277 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2884	15780	28397	8.02	5.0E-39	A750154.1	EST_HUMAN	cd26504.11 Barleaved codon HPLRB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR-Q15408
12410	24793		2.04	5.0E-39	11420289	NT	Q15408 NEUTRAL PROTEASE LARGE SUBUNIT contains LTR7.1 LTR7 repetitive element ;
537	13320	25654	6.78	4.0E-39	AB016610.1	NT	Homo sapiens hypothetical protein FLJ10863 (FLJ10863), mRNA
3559	10314	28951	0.97	4.0E-39	AL163210.2	NT	Chlorococcus anthracis mRNA for ribosomal protein S4X, complete cds
							Homo sapiens chromosome 21 segment HS21C010
7974	20669	33701	1.27	4.0E-39	AA682649.1	EST_HUMAN	ss92g04.11 Stratiogene schizos brain S11 Homo sapiens cDNA clone IMAGE:1020438 3' similar to contains OFRLb1 OFR repetitive element ;
9228	21607	35078	0.56	4.0E-39	DB4116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
9228	21607	35079	0.56	4.0E-39	DB4116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
12427	24802		4.47	4.0E-39	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12534	24878		2.71	4.0E-39	BE839462.1	EST_HUMAN	QV0-FN0063-200600-278-c08 FN0063 Homo sapiens cDNA
46	12875	25498	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
46	12875	25499	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
46	12875	25500	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
11963	24511	37257	4.35	3.0E-39	A084557.1	EST_HUMAN	cd3a10.11 Scores_NH-HMPu_S1 Homo sapiens cDNA clone IMAGE:1600986 3' similar to SW:GTR5_RAT
11963	24511	37258	4.35	3.0E-39	A084557.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE ;
12006	24541		6.82	3.0E-39	H37903.1	EST_HUMAN	cd3a10.11 Scores_NH-HMPu_S1 Homo sapiens cDNA clone IMAGE:1600986 3' similar to SW:GTR5_RAT
877	13646		6.8	2.0E-39	BE409203.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE ;
882	13651		14.08	2.0E-39	A025119.1	EST_HUMAN	y51208.11 Scores retina N2b-4R Homo sapiens cDNA clone IMAGE:190954 3'
1009	13796		4.2	2.0E-39	AF006673.1	NT	601301607F1 NIH_MGC_Z1 Homo sapiens cDNA clone IMAGE:3530289 5'
1520	14287		11.91	2.0E-39	AW372318.1	EST_HUMAN	promoter-7.D01.1 bvtumor Homo sapiens cDNA 5'
							Homo sapiens homodigested 1.2-digoxigenase gene, complete cds
1606	14702	27416	3.28	2.0E-39	AA720574.1	EST_HUMAN	PMO-BT0340-211268-003-002 BT0340 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13
2634	15346	28090	1.84	2.0E-39	AL163248.2	NT	THR repetitive element ;
4370	17108	29743	1.48	2.0E-39	BF370207.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
5403	18203	30607	4.21	2.0E-39	AA008860.1	EST_HUMAN	RCA-FN0037-200700-011-a10 FN0037 Homo sapiens cDNA
7269	19683	33026	2.98	2.0E-39	AA008860.1	EST_HUMAN	gg98903.1 NCI_CGAP_P16 Homo sapiens cDNA clone IMAGE:941603
7431	20108	33195	0.72	2.0E-39	AL163202.2	NT	zn09062.11 Stratiogene INT neuron (#637233) Homo sapiens cDNA clone IMAGE:546651 5'
7431	20108	33196	0.72	2.0E-39	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
8209	20003	34038	0.67	2.0E-39	AF078779.1	NT	Homo sapiens chromosome 21 segment HS21C002
8394	22056		0.55	2.0E-39	AA084631.1	EST_HUMAN	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
							em88c11.11 Stratiogene schizos brain S11 Homo sapiens cDNA clone IMAGE:1630196 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8526	22179		0.73	2.0E-39	U080960.1	EST_HUMAN	tu5563.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2263052 3'
11409	24058	37365	2.97	2.0E-39	D96964.1	NT	Human mRNA for KIAA0208 gene, partial cds
1503	14249	26838	3.71	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1503	14249	26837	3.71	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1521	14268	26952	4.24	1.0E-39	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
4068	16841	29467	0.7	1.0E-39	11430303	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
4068	16841	29468	0.7	1.0E-39	11430303	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
4612	17347	29980	2.5	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGIE resequences, MAGB Homo sapiens cDNA
4612	17347	29981	2.5	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGIE resequences, MAGB Homo sapiens cDNA
4654	17388	30021	8.86	1.0E-39	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
5274	18079	30735	1.02	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5274	18079	30736	1.02	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5542	18339	31246	1.97	1.0E-39	T80876.1	EST_HUMAN	X22908.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109402 5' similar to contains
5578	18375	31287	4.84	1.0E-39	AJ278170.1	NT	Alu repetitive element contains LTR1 repetitive element;
5578	18375	31288	4.84	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
9727	19561		1.57	1.0E-39	11436738	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
7204	19848	33025	1.8	1.0E-39	D78132.1	NT	Homo sapiens mRNA for ras-related GTP-binding protein, complete cds
8462	24761	34207	1.03	1.0E-39	O46830	SWISSPROT	RIBONUCLEASE K8 PRECURSOR (RNASE K8)
12357	24761		1.34	1.0E-39	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
542	13325	25957	1.08	9.0E-40	5903210	NT	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
1213	13963	26620	15.14	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1213	13963	26630	15.14	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1432	14179	26865	6.54	9.0E-40	4507312	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Soraby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
3796	16617	29156	0.97	9.0E-40	4603764	NT	Homo sapiens fragile X mental retardation 1 (FMR1) mRNA
3868	17878	28343	3.98	9.0E-40	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
3036	19802	28449	0.84	8.0E-40	AA078166.1	EST_HUMAN	7HT5A04 Chromosome 7 Hela cDNA Library Homo sapiens cDNA clone 7HT5A04
3903	19653		3.35	8.0E-40	BE39864.1	EST_HUMAN	60128936F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3519166 5'
7616	20282	33390	2.03	7.0E-40	U080325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds

Page 279 of 536
Table 4
Single Exon Probe Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7616	20262	35391	2.03	7.0E-40	U60325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
10813	23498	36732	2.27	7.0E-40	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
2730	15437	28174	8.41	6.0E-40	AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
2730	15437	28175	8.41	6.0E-40	AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
5849	18638		2.24	6.0E-40	BE504766.1	EST_HUMAN	h240g01.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:3210480 3'
8055	18635		1.11	6.0E-40	7881966	NT	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
8836	19498	32522	3.56	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
8836	19498	32523	3.56	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
8877	22527	35722	10.25	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLC0GF04 3'
8877	22527	35723	10.25	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLC0GF04 3'
1869	14907	27318	1.78	4.0E-40	AI686005.1	EST_HUMAN	8871801.x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR:O73505 O73505 POL PROTEIN ;
2101	14832		2.27	4.0E-40	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4356	17084	29720	9.08	4.0E-40	7882117	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7766	20481	33606	0.5	4.0E-40	AI127831	EST_HUMAN	AI127831 NT2RP2 Homo sapiens cDNA clone NT2RP2002172 5'
7890	20585	33714	6.22	4.0E-40	AA742808.1	EST_HUMAN	nc34610.r1 NCI CGAP_Br4 Homo sapiens cDNA clone IMAGE:1222122
8653	21643	34783	6.17	4.0E-40	BE008416.1	EST_HUMAN	P40-BN0167-070500-002-H12 BN0167 Homo sapiens cDNA
8653	21644	34794	5.17	4.0E-40	BE008416.1	EST_HUMAN	P40-BN0167-070500-002-H12 BN0167 Homo sapiens cDNA
10016	23509	36548	3.03	4.0E-40	AW841985.1	EST_HUMAN	RC1-CN0017-120200-012-004 CN0017 Homo sapiens cDNA
4111	18854	29481	1.02	3.0E-40	AI825946.1	EST_HUMAN	wn1207.x1 NCI CGAP_Kdt11 Homo sapiens cDNA clone IMAGE:2380549 3'
8543	18908	32313	7.02	3.0E-40	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (types 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
8280	20974	34116	3.82	3.0E-40	5454187	NT	Homo sapiens HBV associated factor (XAP4) mRNA
8968	21559	34704	1.26	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9111	21789	34683	1.42	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11232	23995	37182	8.36	3.0E-40	6005813	NT	Homo sapiens actin threonine protein kinase (NDR), mRNA
11593	24162	37473	2.23	3.0E-40	AW118789.1	EST_HUMAN	xbdb042.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2005491 3' similar to TR:Q15804 Q15804 SIMILAR TO ENY OF TYPE A AND TYPE B RETROVIRUSES AND TO CLASS II HERV5 ;
317	13120		8.53	2.0E-40	AI223036.1	EST_HUMAN	qg52p08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:183847 3'

Page 280 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
777	13549		1.61	2.0E-40	AW303868.1	EST_HUMAN	xr24e10.x1 NCL CGAP_U4 Homo sapiens cDNA clone IMAGE:2761088 3' similar to SW:R55_MOUSE
1818	14557		0.92	2.0E-40	AV731601.1	EST_HUMAN	P97461.40S RIBOSOMAL PROTEIN S8 ;
1927	14863	27375	1.56	2.0E-40	4506188	NT	AV731601.1 HTF Homo sapiens cDNA clone HTFAZE05 6'
1927	14863	27376	1.56	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2064	14766	27522	1.21	2.0E-40	A068562.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2064	14895	27630	2.48	2.0E-40	6453562	EST_HUMAN	wf09a11.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2514716 3' similar to TR:Q81928 Q81929 ZINC FINGER PROTEIN ;
2095	15404		1.44	2.0E-40	BE276932.1	EST_HUMAN	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
3123	15888	26520	4.28	2.0E-40	6453562	NT	601121567F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3545784 5'
4843	17573	30197	1.06	2.0E-40	AL163280.2	NT	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
4843	17573	30198	1.06	2.0E-40	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
863	13632		1.78	1.0E-40	AA226986.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2027	15339	28083	0.83	1.0E-40	BF036881.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2062	15401		1.34	1.0E-40	BE018348.1	EST_HUMAN	nc06a09.s1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:1007508
2741	15447	28185	1.18	1.0E-40	BF541030.1	EST_HUMAN	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3963303 5'
2741	15447	28186	1.18	1.0E-40	BF541030.1	EST_HUMAN	bb78a10.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3044570 5' similar to TR:Q82158 Q82158 SYNTAXIN 17 ;
3292	16053		1.27	1.0E-40	4507142	NT	602068004F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067738 5'
4871	17306	28634	4.32	1.0E-40	4508012	NT	602068004F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067738 5'
6161	18938	31907	0.75	1.0E-40	W92708.1	EST_HUMAN	Homo sapiens sorting nexin 3 (SNX3) mRNA
6161	18938	31908	0.75	1.0E-40	W92708.1	EST_HUMAN	zh79f11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
6987	18980	32727	1.77	1.0E-40	AA573201.1	EST_HUMAN	zh79f11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
6987	18980	32728	1.77	1.0E-40	AA573201.1	EST_HUMAN	zh79f11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
7133	19820	32898	0.85	1.0E-40	P28808	SWISSPROT	h42604.s1 NCL CGAP_AA1 Homo sapiens cDNA clone IMAGE:965167 3'
10834	23516	36768	8.34	1.0E-40	AU149345.1	EST_HUMAN	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; RIBONUCLEASE H]
11684	24289	37612	1.89	1.0E-40	AA614295.1	EST_HUMAN	AU149345.1 NCL CGAP_P13 Homo sapiens cDNA clone IMAGE:1115861 similar to TR:G1138408
11684	24289	37613	1.89	1.0E-40	AA614295.1	EST_HUMAN	np08f03.s1 NCL CGAP_P13 Homo sapiens cDNA clone IMAGE:1115861 similar to TR:G1138408
12376	25274		10.08	1.0E-40	BF334112.1	EST_HUMAN	G1138408 KIAA0173 PROTEIN ;
7822	20517	33643	1.62	8.0E-41	AL163203.2	NT	MF2-C70222-21088-002-e10 C70222 Homo sapiens cDNA
							Homo sapiens chromosome 21 segment HS21C003

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
809	15553	26246	1.24	7.0E-41	AB34384.1	EST_HUMAN	wp44h04.x1 NCI_CGAP_K011 Homo sapiens cDNA clone IMAGE:2483865 3'
809	15553	26247	1.24	7.0E-41	AB34384.1	EST_HUMAN	wp44h04.x1 NCI_CGAP_K011 Homo sapiens cDNA clone IMAGE:2483865 3'
4009	17344	29976	0.92	7.0E-41	BE388592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603655 5'
4009	17344	29977	0.92	7.0E-41	BE388592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603655 5'
6183	17991	30507	1.2	7.0E-41	1154570	NT	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
5918	18703	31656	3.49	7.0E-41	11418208	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6260	19034	32009	0.51	7.0E-41	11433010	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
6895	17971	30528	0.88	7.0E-41	U72336.1	NT	Human platelet activating factor acetylhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11411	24000	37306	2.23	7.0E-41	4758443	NT	Homo sapiens guanine nucleotide binding protein 10 (GNB10) mRNA
11631	24228	37552	1.73	7.0E-41	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12782	26271	28724	4.35	7.0E-41	11417672	NT	Homo sapiens pectadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
274	13061	28724	1.19	6.0E-41	AB037183.1	NT	Homo sapiens DSCR6B mRNA, complete cds
2104	14635	27569	2.04	6.0E-41	765742	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4433	17169	29797	0.91	6.0E-41	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3682677 5'
7871	20566	33692	1.44	6.0E-41	BF513783.1	EST_HUMAN	U1H-BW1-amp-b-03-Q-01.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
1785	14535	27244	1.11	5.0E-41	T62828.1	EST_HUMAN	y030e10.s1 Strategene lung (#637210) Homo sapiens cDNA clone IMAGE:78628 3'
4087	16630		1.07	5.0E-41	4885638	NT	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
6452	19220		2.29	5.0E-41	BE067042.1	EST_HUMAN	PM4-BT0341-251169-02.F1 BT0341 Homo sapiens cDNA
382	13169		2.42	4.0E-41	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-p08 HT0367 Homo sapiens cDNA
1076	13834	26462	1.26	4.0E-41	AU118344.1	EST_HUMAN	AU116344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
1388	14135	26810	15.51	4.0E-41	A027117.1	EST_HUMAN	ow45c06.s1 Soares_parritydld_tumor_NNHPA Homo sapiens cDNA clone IMAGE:1049794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE, contains LTR5.b1 LTR5 repetitive element;
1388	14135	26811	15.51	4.0E-41	A027117.1	EST_HUMAN	ow45c06.s1 Soares_parritydld_tumor_NNHPA Homo sapiens cDNA clone IMAGE:1049794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE, contains LTR5.b1 LTR5 repetitive element;
1403	14150	26830	1.88	4.0E-41	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
1632	14378	27085	6.08	4.0E-41	AJ600406.1	EST_HUMAN	tr06c04.x1 NCI_CGAP_Birc25 Homo sapiens cDNA clone IMAGE:2165958 3' similar to contains OPR.b1 OPR repetitive element;
2891	15658	28302	3.55	4.0E-41	AJ220041.1	NT	Homo sapiens 959 kb contig between AML1 and CBRI on chromosome 21q22; segment 1/3
2891	15658	28303	3.55	4.0E-41	AJ220041.1	NT	Homo sapiens 959 kb contig between AML1 and CBRI on chromosome 21q22; segment 1/3
4124	16868	29493	2.24	4.0E-41	X92895.1	NT	H.sapiens DNase I hypersensitive site (HSS-3) enhancer element

Page 282 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6416	19184		1.41	4.0E-41	AV788285.1	EST_HUMAN	AV788285 BM Homo sapiens cDNA clone BMBFHC08 5'
8593	22248	35430	7.24	4.0E-41	BF304683.1	EST_HUMAN	60188008F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
11671	24286		11.07	4.0E-41	AV710480.1	EST_HUMAN	AV710480 Q1 Homo sapiens cDNA clone QUAAC007 5'
12546	25184		1.83	4.0E-41	AV708431.1	EST_HUMAN	AV708431 ADO Homo sapiens cDNA clone ADOARE02 5'
12727	24698	30971	1.69	4.0E-41	BE387118.1	EST_HUMAN	60160315F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910059 5'
927	13864	26358	2.68	3.0E-41	AB030178.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
							Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4301	17040	29887	2.45	3.0E-41	AB028698.1	NT	
5404	18204	30908	7.78	3.0E-41	X87698.1	NT	H. sapiens mRNA for putative p64 CLCP protein
6288	19081	32043	1.99	3.0E-41	AB037908.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
7159	19846	32916	0.71	3.0E-41	AA336168.1	EST_HUMAN	EST84683 Jurkat T-cells VI Homo sapiens cDNA 5' end
11730	24323	37647	1.26	3.0E-41	AJ220441.1	NT	Homo sapiens 990 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
11924	24485		1.52	3.0E-41	AA009768.1	EST_HUMAN	af1710.61 Soares testis_NHT Homo sapiens cDNA clone IMAGE:031947 3'
12456	24825		1.48	3.0E-41	BF125622.1	EST_HUMAN	601762940F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4028081 5'
1817	14299	26987	5.17	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
1951	14698	27306	1.84	2.0E-41	AA331940.1	EST_HUMAN	EST35818 Embryo, 8 week 1 Homo sapiens cDNA 5' end
2210	14844	27684	1.54	2.0E-41	D88662.1	NT	Human mRNA for KIAA0207 gene, complete cds
2264	14990	27720	3.34	2.0E-41	X69631.1	NT	G.gallia DNA for ZNF80 gene homolog
2831	14299	26987	4.85	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
3321	19081	28731	1.41	2.0E-41	AA449546.1	EST_HUMAN	z08004.L1 Soares testis_NB2HFS_3w Homo sapiens cDNA clone IMAGE:785689 5'
4570	17314	28842	1.17	2.0E-41	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C087
4579	17314	28843	1.17	2.0E-41	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C087
							Human sapiens chromosome 21 segment HS21C087
5141	17859	30475	0.9	2.0E-41	AW236647.1	EST_HUMAN	xm47706.x1 NCI_GCAP_G08 Homo sapiens cDNA clone IMAGE:2887963 3' similar to TR:070843 070843 PPAR GAMMA COACTIVATOR 1.1
6530	18208	32300	0.76	2.0E-41	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
7572	20241	33346	8.08	2.0E-41	AF038404.1	NT	Homo sapiens homolog of Nucleo (Nucleo) mRNA, complete cds
7687	20692	33785	1.45	2.0E-41	M06044.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7687	20692	33787	1.45	2.0E-41	M06044.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7686	20690	33818	1.12	2.0E-41	AA328285.1	EST_HUMAN	EST31723 Embryo, 12 week 1 Homo sapiens cDNA 5' end
8874	21595	34710	1.61	2.0E-41	P62742	SWISSPROT	ZINC FINGER PROTEIN 135
9317	21984	35155	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9317	21984	35156	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11408	24071	37379	2.78	2.0E-41	AA372937.1	EST_HUMAN	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end
3201	15984	28616	1.05	1.0E-41	BE3869735.1	EST_HUMAN	601445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3201	15084	28817	1.05	1.0E-41	BE869735.1	EST_HUMAN	60145647F1 NIH_MGC_05 Homo sapiens cDNA clone IMAGE:3846803 5'
4529	17294	28897	14.08	1.0E-41	6678468	NT	Mus musculus tubulin alpha 6 (Tub6), mRNA
6749	17978	30582	0.66	1.0E-41	H98079.1	EST_HUMAN	Yr1803.01 Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:262061 3'
9318	21985	35157	1.66	1.0E-41	A1217898.1	EST_HUMAN	q776070.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755668 3'
11111	23781	37056	1.66	1.0E-41	AW847812.1	EST_HUMAN	IL3-CT10213-100200-040-F09 CT10213 Homo sapiens cDNA
12054	24571		2.81	1.0E-41	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
8418	21111		1.14	9.0E-42	BE179191.1	EST_HUMAN	RCO-HT0613-210300-032-071 Homo sapiens cDNA
9072	21761	34922	3.49	9.0E-42	11580161	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9072	21761	34923	3.49	9.0E-42	11580151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
450	13296	25875	7.71	8.0E-42	AF003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
2102	14833	27587	0.92	8.0E-42	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORC1L4 gene region, section 1/2 (DLEC1, ORC1L3, ORC1L4 genes, complete cds)
12093	25277		4.4	8.0E-42	AA493968.1	EST_HUMAN	h07602.s1 NCL_GGAP_Thy1 Homo sapiens cDNA clone IMAGE:943586 similar to TR-0434304 G434304
12111	25164		1.56	8.0E-42	AW088062.1	EST_HUMAN	367BP EXPRESSED SEQUENCE TAG MFNA ;
911	13978		2.58	7.0E-42	AL163295.2	NT	xc97404.x1 NCL_GGAP_Bn35 Homo sapiens cDNA clone IMAGE:2582174 3' similar to contains OFR.12
9143	18174	35038	1.67	7.0E-42	A1204358.1	EST_HUMAN	OFR repetitive element ;
11120	23786	37071	1.3	7.0E-42	AA506562.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
11128	23796	37072	1.3	7.0E-42	AA506562.1	EST_HUMAN	q75897.2.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754278 3'
1848	14598	27268	3.21	6.0E-42	AF012872.1	NT	h23407.s1 NCL_GGAP_Pt1 Homo sapiens cDNA clone IMAGE:914652
1848	14598	27300	3.21	6.0E-42	AF012872.1	NT	h23407.s1 NCL_GGAP_Pt1 Homo sapiens cDNA clone IMAGE:914652
2287	15012		3.55	6.0E-42	AW238956.1	EST_HUMAN	Homo sapiens phosphotyrosine 4-kinase 230 (p4K230) mRNA, complete cds
5381	18181	30871	1.63	8.0E-42	AB028990.1	NT	xc29008.x1 NCL_GGAP_JN10 Homo sapiens cDNA clone IMAGE:2741798 3' similar to contains L1.11 L1
5930	18181	30871	1.45	8.0E-42	AB028990.1	NT	repetitive element ;
132	12947		7.83	5.0E-42	AJ271735.1	NT	Homo sapiens mRNA for KIAA1087 protein, partial cds
428	13214	25859	1.41	5.0E-42	BE217913.1	EST_HUMAN	Homo sapiens Xa pseudotubercular region; segment 1/2
474	13280		2.67	5.0E-42	5730038	NT	h03111.x1 NCL_GGAP_L104 Homo sapiens cDNA clone IMAGE:3175052 3'
475	13281		2.74	5.0E-42	5730038	NT	Homo sapiens SET domain and methionine transposase fusion gene (SETMAR) mRNA
6887	18280	32263	1.04	5.0E-42	11433083	NT	Homo sapiens SET domain and methionine transposase fusion gene (SETMAR) mRNA
6597	18320	32264	1.04	5.0E-42	11433083	NT	Homo sapiens ubiquitin protein ligase E3a (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA
							Homo sapiens ubiquitin protein ligase E3a (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6704	19619	32662	3.12	5.0E-42	11417957	NT	Homo sapiens myotubularin related protein 3 (MTMR3), mRNA
7101	19789	32854	1.59	5.0E-42	AF071599.1	NT	Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta2 isoform mRNA, complete cds
7711	20378	33480	0.57	5.0E-42	4826877	NT	Homo sapiens reelin (RELN) mRNA
8077	21369	34515	3.55	5.0E-42	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
10820	23600	36846	2.44	5.0E-42	8923163	NT	Homo sapiens hypothetical protein FLJ20163 (FLJ20163), mRNA
736	13510	28187	5.09	4.0E-42	AF050066.1	NT	Homo sapiens MHC class I region
736	13510	28188	5.09	4.0E-42	AF050066.1	NT	Homo sapiens MHC class I region
1044	13803	26482	3.46	4.0E-42	AF189011.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4171	16911	29541	1.22	4.0E-42	X69417.1	NT	H. sapiens PROS-27 mRNA
4202	16943	29570	1.07	4.0E-42	AF246216.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4223	16964	29589	4.15	4.0E-42	4508498	NT	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (REFX4) mRNA
4543	17278	29609	15.12	4.0E-42	4508008	NT	Homo sapiens zinc finger protein 177 (ZNF177) mRNA
10545	23241	36475	1.56	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-04040-018-h11 ST0278 Homo sapiens cDNA
10545	23241	36475	1.56	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-04040-018-h11 ST0278 Homo sapiens cDNA
11389	23685	37297	1.6	4.0E-42	BF035327.1	EST_HUMAN	RC3-TN0078-110900-024-g07 TN0078 Homo sapiens cDNA
1466	14213	26902	2.81	2.0E-42	BF378834.1	EST_HUMAN	RC3-TN0078-110900-024-g07 TN0078 Homo sapiens cDNA
2413	15134		2.82	2.0E-42	AW89344.1	EST_HUMAN	RC3-TN0078-110900-024-g07 TN0078 Homo sapiens cDNA
2425	15146	27879	2.22	2.0E-42	AW250059.1	EST_HUMAN	RC3-TN0078-110900-024-g07 TN0078 Homo sapiens cDNA
5670	18465	31379	7.8	2.0E-42	AW65368.1	EST_HUMAN	EST1367438 MAGC resequencing, MAGC Homo sapiens cDNA
5870	18465	31380	7.8	2.0E-42	AW65368.1	EST_HUMAN	EST1367438 MAGC resequencing, MAGC Homo sapiens cDNA
6654	19416	32429	1.46	2.0E-42	AF052568.1	EST_HUMAN	EST1367438 MAGC resequencing, MAGC Homo sapiens cDNA
9741	22302	33596	1.32	2.0E-42	BE638619.1	EST_HUMAN	601061284-F1 NIH_MGC_30 Homo sapiens cDNA clone IMAGE:1663417 3'
9955	22603	33607	0.88	2.0E-42	P81649	SW/ISSPROT	601061284-F1 NIH_MGC_30 Homo sapiens cDNA clone IMAGE:3447620 5'
9955	22603	33608	0.88	2.0E-42	P81649	SW/ISSPROT	RIBONUCLEASE K3 (RNASE K3)
11742	24334	37680	1.37	2.0E-42	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
717	13490	26143	1.21	1.0E-42	X57147.1	NT	Human endogenous retrovirus pHIE.1 (ERV9)
1019	13779	26441	1.1	1.0E-42	AW295909.1	EST_HUMAN	UHR-B11-afh-e-04-Q-U1 st NGL CGAP Sinc3 Homo sapiens cDNA clone IMAGE:2721871 3'
1079	13837	26495	1.18	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1079	13837	26496	1.18	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1220	15583	28841	16.49	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1220	15593	28842	16.49	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1693	14439	27137	1.13	1.0E-42	11423219	NT	Homo sapiens rec (LOC51201), mRNA
2548	15261	27998	1.83	1.0E-42	5174458	NT	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA
							Homo sapiens origin recognition complex, subunit 5 (yeast homolog) Hle (ORCSL) mRNA, and translated products
2064	15730	28380	10.26	1.0E-42	4505524	NT	Homo sapiens KIAA0265 gene product (KIAA0265), mRNA
3065	16449	29088	2.6	1.0E-42	7662027	NT	Homo sapiens chromosome 21 segment HS21C067
3005	16655	28298	1.17	1.0E-42	163287.2	NT	Homo sapiens chromosome 21 segment HS21C067
4221	16982	29587	1.82	1.0E-42	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C060
4554	17289	29918	0.75	1.0E-42	AW813617.1	EST HUMAN	RC3-ST0167-161088-012-403 ST0197 Homo sapiens cDNA
4697	17431	30062	1.88	1.0E-42	5803123	NT	Homo sapiens proteasome inhibitor (P31), mRNA
4697	17431	30063	1.88	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (P31), mRNA
4728	17480	30097	0.02	1.0E-42	4508768	NT	Homo sapiens ryanodine receptor 3 (RYR3), mRNA
5044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
5044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
9886	22634	35844	4.03	9.0E-43	4787968	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
637	13416	26052	19.89	8.0E-43	AV736824.1	EST HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08.5'
637	13416	26053	19.89	8.0E-43	AV736824.1	EST HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08.5'
684	13459	26104	0.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26106	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26106	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
5812	18408	31321	0.76	8.0E-43	H13682.1	EST HUMAN	g98811.1 Scores placenta N621P Homo sapiens cDNA clone IMAGE:148172.5'
3632	16385	26025	6.42	7.0E-43	AW246442.1	EST HUMAN	2822281 Optima NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822281.5'
							O15475 UNNAMED HERV-H PROTEIN, contains LTR7.b1 LTR7 repetitive element;
8667	21389		4.08	7.0E-43	A1936748.1	EST HUMAN	ne72005.t1 NCI CGAP_Ew1 Homo sapiens cDNA clone IMAGE:309803 similar to gb:U05095.90S
1321	14070		10.45	6.0E-43	AA461890.1	EST HUMAN	RIBOSOMAL PROTEIN L30 (HUMAN);
2600	15314		2.25	6.0E-43	AV708201.1	EST HUMAN	AV708201 ADG Homo sapiens cDNA clone ADGACC10.5'
6219	18993	31969	2.24	6.0E-43	9655973	NT	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP3B, mRNA
8608	19469	32492	2.08	6.0E-43	AW488897.1	EST HUMAN	h303604.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991.3' similar to contains MER1.3 MER1 MER1 repetitive element;
9751	22402	35007	2.16	6.0E-43	AA195154.1	EST HUMAN	z735405.t1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:605410.5' similar to TR:G52841
11044	23714		2.95	6.0E-43	AL119198.1	EST HUMAN	GS29841 DB1 COMPLETE QDS, contains element PTR7 repetitive element;
138	17963		2.84	5.0E-43	AL163213.2	NT	DKFZp781L1712.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp781L1712.5'
							Homo sapiens chromosome 21 segment HS21C013

Page 286 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
490	13275	25009	4.55	5.0E-43	AA382780.1	EST_HUMAN	EST166033 Testis (Homo sapiens cDNA 5' end)
2850	19618	28284	1.52	5.0E-43	AV732578.1	EST_HUMAN	AV732578 HTF Homo sapiens cDNA clone HTFAN08 5'
6213	19463	32484	1.17	5.0E-43	AG135009.1	EST_HUMAN	tw22a07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2280452 3'
6802	19463	32484	0.72	5.0E-43	AG135009.1	EST_HUMAN	tw22a07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2280452 3'
8778	21470	17470	0.46	5.0E-43	HT4277.1	EST_HUMAN	y449g12.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:228510 5'
9248	21827	35088	0.47	5.0E-43	AA044450.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
9248	21827	35089	0.47	5.0E-43	AA044450.1	EST_HUMAN	z635602.r1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
9264	22018	35186	4.44	5.0E-43	AA456288.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
10287	22844	36159	2.31	5.0E-43	AT73244.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
10335	22862	36201	1.21	5.0E-43	AL049110.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
10663	23354	36593	5.29	5.0E-43	AW 863007.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
10891	23571	36822	1.84	5.0E-43	W20011.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
952	16519	29383	5.9	4.0E-43	AF003528.1	NT	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
6178	17887	30802	1.02	4.0E-43	AI066338.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
6276	18049	32026	0.7	4.0E-43	6809009	NT	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
7030	18722		2.32	4.0E-43	11416763	NT	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
8077	20771	33900	5.21	4.0E-43	AI244341.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
8077	20771	33901	5.21	4.0E-43	AI244341.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
10213	22861	38074	1.23	4.0E-43	6005987	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
11275	23936	37228	1.68	4.0E-43	IT7390.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
12030	24556		3.05	4.0E-43	R20950.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
1191	13943		4.59	3.0E-43	AF223391.1	NT	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
1690	14434	27130	2.07	3.0E-43	X07899.1	NT	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
3558	18313	28890	1.31	3.0E-43	S60002.1	NT	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to
4258	48000	29620	4.04	3.0E-43	AA548154.1	EST_HUMAN	gdcD29805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN); gdcD29805.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:486698 5' similar to

Page 287 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO	Exon SEQ ID NO	ORF SEQ ID NO	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
5803	18583	31518	0.72	3.0E-43	D34613.1	NT	Human TBXAS1 gene for thromboxane synthase, promoter region and exon 1
6284	19038	32013	2.24	3.0E-43	7305360	NT	Mus musculus clogdin (Clog), mRNA
6284	19038	32014	2.24	3.0E-43	7305360	NT	Mus musculus clogdin (Clog), mRNA
6828	18380	32404	4.29	3.0E-43	U05487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8063	20757		8.38	3.0E-43	AA439824.1	EST_HUMAN	aa88911.11 Stratiotes feldii ratia 93720 Homo sapiens cDNA clone IMAGE:383413 3' similar to contains TH-R12 THR repetitive element;
8719	21411	34554	1.87	3.0E-43	7681721	NT	Homo sapiens hypothetical protein (HSA011916), mRNA
9764	22415	35622	0.58	3.0E-43	11420217	NT	Homo sapiens similar to ornithine carbonyltransferase (H. sapiens) (LOC83648), mRNA
179	12891		7.67	2.0E-43	A190794.1	EST_HUMAN	q861c09.11 Scores, tests, NHT: Homo sapiens cDNA clone IMAGE:1733983 3' similar to contains PTR7.13 PTR7 PTR7 repetitive element;
6383	19152	32151	1.13	2.0E-43	BE222778.1	EST_HUMAN	hJ5348.01 NCL_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173760 3' similar to contains element MER40 repetitive element;
6383	19152	32152	1.13	2.0E-43	BE222778.1	EST_HUMAN	hJ5348.01 NCL_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173760 3' similar to contains element MER40 repetitive element;
7176	19882	32833	1.32	2.0E-43	AW207300.1	EST_HUMAN	UH-B11-49-09-QJ-1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3'
8207	20801		5.59	2.0E-43	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
11198	20922		4.94	2.0E-43	T03007.1	EST_HUMAN	FB1G3 Fetal brain, Stratiotes Homo sapiens cDNA clone FB1G5 3' end similar to LINE-1
1645	14391	27080	2.94	1.0E-43	AF154838.1	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
1645	14391	27081	2.94	1.0E-43	AF154838.1	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
1700	14443	27142	1.57	1.0E-43	AL103284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2727	15434	28170	3.85	1.0E-43	BF348283.1	EST_HUMAN	602022313F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157886 5'
5325	18128	30788	0.74	1.0E-43	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoform 3 (PDK3) mRNA
6514	19279	32281	8.45	1.0E-43	4507168	NT	Homo sapiens Spk transcription factor (SP4) mRNA
6870	17947	30542	1.36	1.0E-43	R19731.1	EST_HUMAN	X940e01.1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:34732 5' similar to SP-ED38_MOUSE P28686 BRAIN PROTEIN DN38;
7833	20528	33856	1.13	1.0E-43	AF175268.1	NT	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
7895	20680		4.03	1.0E-43	AF158400.1	NT	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
8738	21428	34574	25.49	1.0E-43	AW983878.1	EST_HUMAN	EST375740 IMAGE resequences, MAGH Homo sapiens cDNA
10189	22837	38052	0.68	1.0E-43	AW953226.1	EST_HUMAN	EST3965286 IMAGE resequences, MAGH Homo sapiens cDNA
10864	23584	36812	8.11	1.0E-43	A1984981.1	EST_HUMAN	WR7601.1 NCL_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2469705 3'
11338	24028	37332	4.78	1.0E-43	11424378	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E), mRNA
11075	24520		3.04	1.0E-43	AL137984.1	EST_HUMAN	DKF2761D1015.1 J1 761 (synonym: hmy2) Homo sapiens cDNA clone DKF2761D1015 5'
24968	31076		1.89	1.0E-43	AF1675415.1	EST_HUMAN	W689004.1 NCL_CGAP_Px28 Homo sapiens cDNA clone IMAGE:2313776 3'
12753	24968		1.89	1.0E-43	AF1675415.1	EST_HUMAN	W689004.1 NCL_CGAP_Px28 Homo sapiens cDNA clone IMAGE:2313776 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12489	24835	31032	3.41	8.0E-44	11418322	NT	Homo sapiens cathepsin EGF LAO seven-pass G-type receptor 1 (CELSR1), mRNA
670	13639	26306	6.23	8.0E-44	A1222985.1	EST_HUMAN	g23g01.x1 Scores_NFL_T GBC_S1 Homo sapiens cDNA clone IMAGE:184552 3'
870	13639	26310	6.23	8.0E-44	A1222985.1	EST_HUMAN	g23g01.x1 Scores_NFL_T GBC_S1 Homo sapiens cDNA clone IMAGE:184552 3'
8437	21129	34268	2.07	8.0E-44	X94354.1	NT	H.sapiens DNA for Cere cAMP-PDE gene
10238	22884	36097	0.47	8.0E-44	11423467	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
10239	22884	36098	0.47	8.0E-44	11423467	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
11117	23787	37004	3.78	8.0E-44	Y10488.2	NT	Homo sapiens mRNA for tyrosine kinase, partial
11688	24283	37806	1.36	8.0E-44	L29130.1	NT	Homo sapiens myosin mRNA, partial cds
12207	24873	31073	4.06	8.0E-44	11627388	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA
12248	25009	30979	1.36	8.0E-44	11418089	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12580	25186	30908	2.55	8.0E-44	11418089	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
644	13423	27696	0.89	7.0E-44	R08035.1	EST_HUMAN	yes860.11 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:124620 5'
2228	14658	27696	1.06	7.0E-44	5031888	NT	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA
2968	15732	26381	2.58	7.0E-44	AF048726.1	NT	Homo sapiens multistep msc32 repeat region
2990	15732	26382	2.58	7.0E-44	AF048726.1	NT	Homo sapiens multistep msc32 repeat region
3943	16584	29231	2.54	7.0E-44	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4217	16658	29582	1.12	7.0E-44	AF231919.1	NT	Homo sapiens chromosome 21 segment HS21C084
5142	17880	30478	1.01	7.0E-44	4505648	NT	Homo sapiens chromosome 21 unknown mRNA
8086	20778	33908	2.28	7.0E-44	AU159839	EST_HUMAN	Homo sapiens proteoglycan convertase subtilisin/kexin type 2 (PCSK2) mRNA
6012	16793	31756	0.94	6.0E-44	Z20846.1	EST_HUMAN	AU159839 Y79A11 Homo sapiens cDNA clone Y79AA1000468 3'
11781	24372	37702	1.76	6.0E-44	AW954050.1	EST_HUMAN	HSAAADEYU P, Human fetal Brain Whole tissue Homo sapiens cDNA
298	13102	33	3.3	5.0E-44	AJ286880.1	NT	EST366120 MAGC neosequences, MAGC Homo sapiens cDNA
323	13124	33	2.72	5.0E-44	AJ286880.1	NT	Homo sapiens KIA0051 gene (partial), X73 gene and LZTFL1 gene
7788	20483	33607	4.96	5.0E-44	AJ508523.1	EST_HUMAN	Homo sapiens KIA0051 gene (partial), X73 gene and LZTFL1 gene
9284	22038	29816	2.34	5.0E-44	AU124571.1	EST_HUMAN	tr40402.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OFR.t
3409	16167	29816	3.76	5.0E-44	AU124571.1	EST_HUMAN	OFR OFR repetitive element;
7370	20050	33131	0.68	4.0E-44	BE983178.1	EST_HUMAN	AU124571 NT28M4 Homo sapiens cDNA clone NT28M4000218 5'
8169	20963	33996	0.76	4.0E-44	L21948.1	NT	AU124571 chromosome 21 segment HS21C103
8777	21499	37163	0.61	4.0E-44	BE178818.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3910152 5'
11202	23868	37163	5.36	4.0E-44	U50878.1	NT	Human fibrillin (FBN1) locus polymorphism
3084	16859	28500	5.77	3.0E-44	AA169661.1	EST_HUMAN	RC3-H1T0565-010400-023-008 HT0565 Homo sapiens cDNA
							Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds
							zr18b05.r1 Stragapere fetal refine 937202 Homo sapiens cDNA clone IMAGE:609777 5'

Page 289 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3870	16020	28280	1.37	3.0E-44	AA337234.1	EST_HUMAN	EST42288 Endometrial tumor Homo sapiens cDNA 5' end similar to similar to alpha-1-antitrypsinase F
6419	22097	35286	0.65	3.0E-44	AF005273.1	NT	Sus scrofa domestica submandibular mucin mRNA, complete cds
1027	13767	28446	2.84	2.0E-44	4826885	NT	Homo sapiens DEADH (Aap-Glu-Ala-Asp-His) box polypeptide 1 (DDX1) mRNA
1027	13767	28447	2.84	2.0E-44	4826885	NT	Homo sapiens DEADH (Aap-Glu-Ala-Asp-His) box polypeptide 1 (DDX1) mRNA
1185	13837	28602	3.38	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1185	13837	28603	3.38	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1289	14038	28711	4.06	2.0E-44	AF133588.1	NT	Homo sapiens RAB38 (RAB38) mRNA, complete cds
1347	14095	28770	1.3	2.0E-44	BE46525.1	EST_HUMAN	hwl4083x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3182838 3' similar to SW:OXYB_HUMAN
2147	14877	27612	2.22	2.0E-44	AF070651.1	NT	P22059 OXYSTEROL-BINDING PROTEIN, ;
2916	15327		1.31	2.0E-44	5901933	NT	Homo sapiens tissue-type bone marrow zinc finger protein 4 mRNA, complete cds
3463	16219	28873	1.13	2.0E-44	D87675.1	NT	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (GLAPSA), mRNA
4331	17268	28899	1.54	2.0E-44	AW894379.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
6004	18785	31747	1.87	2.0E-44	11448901	NT	PM4-SN0016-120500-005-404 SN0016 Homo sapiens cDNA
							Homo sapiens chemokine (C-C motif) receptor 9 (CCR9), mRNA
6758	17927	30502	3.31	2.0E-44	AF038988.1	NT	Homo sapiens general transcription factor 2-1 (GTF2I) mRNA, alternatively spliced product, complete cds
7313	19906	33074	4.57	2.0E-44	11419228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
7313	19906	33075	4.57	2.0E-44	11419228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8327	21020	34155	0.87	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIA00917), mRNA
8327	21020	34156	0.87	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIA00917), mRNA
8517	21209	34352	1.59	2.0E-44	BE389058.1	EST_HUMAN	601289514F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613586 5'
11883	24496		1.52	2.0E-44	BE244902.1	EST_HUMAN	TCBAP1E2795 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCSA Homo sapiens cDNA clone TCBAP2795
12760	25020		1.4	2.0E-44	11526238	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
51	12880	25507	2.43	1.0E-44	7857334	NT	Homo sapiens MischapenNIK-related kinase (MINK), mRNA
51	12880	25508	2.43	1.0E-44	7857334	NT	Homo sapiens MischapenNIK-related kinase (MINK), mRNA
666	13347	25975	2.44	1.0E-44	AW853132.1	EST_HUMAN	RC1-CT0249-030300-025-H12 CT0249 Homo sapiens cDNA
1175	13928		1.9	1.0E-44	AW994803.1	EST_HUMAN	RC1-BN0039-110300-012-001 BN0039 Homo sapiens cDNA
1567	14314		5.78	1.0E-44	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
							zwc3402.1 Scores: total: 765.76, sw Homo sapiens cDNA clone IMAGE:773763 5' similar to
2221	14949	27687	3.74	1.0E-44	AA434554.1	EST_HUMAN	contains THR13 THR repetitive element;
2221	14949	27688	3.74	1.0E-44	AA434554.1	EST_HUMAN	zwc3402.1 Scores: total: 765.76, sw Homo sapiens cDNA clone IMAGE:773763 5' similar to
							contains THR13 THR repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2280	15590	27746	0.98	1.0E-44	AA390098.1	EST_HUMAN	2883411.1 Scores: testis_NHT Homo sapiens cDNA clone IMAGE:729478 5'
2763	15468		1.44	1.0E-44	AF106779.1	NT	Homo sapiens transcription factor IGHE enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 8, and synaptophysin genes, complete cds; and L-type calcium channel c2
3712	16465	26211	3.73	1.0E-44	AA455890.1	EST_HUMAN	ae01c09.s1 Scores: NIH/MPU_S1 Homo sapiens cDNA clone IMAGE:811984 3'
5048	17767	30395	1.04	1.0E-44	AL130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
5048	17767	30396	1.04	1.0E-44	AL130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
8163	20857	33985	0.98	1.0E-44	AW067073.1	EST_HUMAN	EST379147 MAGE sequences, MAGJ Homo sapiens cDNA
8163	20857	33989	0.98	1.0E-44	AW067073.1	EST_HUMAN	EST379147 MAGE sequences, MAGJ Homo sapiens cDNA
8544	21236	34390	0.96	1.0E-44	AL163209.2	NT	Homo sapiens chromosome 21 segment HS210009
8924	21615	34759	0.98	1.0E-44	AJ337163.1	EST_HUMAN	q88907.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:20094023 3'
10930	23616		4.04	1.0E-44	AV714808.1	EST_HUMAN	AV714808 DCS Homo sapiens cDNA clone DCSBYE03 5'
11516	24116	37427	3.92	1.0E-44	10092884	NT	Homo sapiens Sushi domain (SCR repeat) containing (BKG5A8.2) mRNA
11583	24182	37468	3.17	1.0E-44	AW846967.1	EST_HUMAN	RC1-C10198-150908-011-C08 C10198 Homo sapiens cDNA
11583	24182	37497	3.17	1.0E-44	AW846967.1	EST_HUMAN	RC1-C10198-150908-011-C08 C10198 Homo sapiens cDNA
4639	17274	29605	1.38	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4639	17274	29607	1.38	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6562	19317	32323	1.31	9.0E-45	AB023212.1	NT	Homo sapiens mRNA for KIAA0996 protein, partial cds
2527	15243	27682	3.12	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
5023	17744	30355	6.41	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
6414	19182	32181	0.96	8.0E-45	AW892763.1	EST_HUMAN	CAG-NIN0005-130300-283-509 NIN0005 Homo sapiens cDNA
8006	20701	33930	0.91	8.0E-45	AA377995.1	EST_HUMAN	CAG-NIN0005-130300-283-509 NIN0005 Homo sapiens cDNA
1645	14291		1.01	8.0E-45	A075425.1	EST_HUMAN	W606036.x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:2313602 3' similar to contains L1.H L1 repetitive element
3960	16709		4.09	6.0E-45	AW157570.1	EST_HUMAN	ab0307.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782309 3' similar to SW-RT3A_HUMAN PA026 60S RIBOSOMAL PROTEIN L13A ;
12555	25378		1.55	8.0E-45	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
872	13941		1.03	6.0E-45	AL163203.2	NT	Homo sapiens chromosome 21 segment HS210003
1995	14731	27453	3.65	5.0E-45	BF333627.1	EST_HUMAN	CMA-CN0044-180200-515-01 CN0044 Homo sapiens cDNA
3204	15957	28621	1.79	5.0E-45	A1623798.1	EST_HUMAN	169407.x1 NCI CGAP_G11 Homo sapiens cDNA clone IMAGE:2116483 3' similar to SW PAX1_MOUSE P00084 PAIRED BOX PROTEIN PAX-1 ;
5426	18224	30035	8.78	5.0E-45	AA397781.1	EST_HUMAN	z72503.s1 Scores: testis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TAP1 repetitive element ;
5929	18713	31669	1.31	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5920	18713	31670	1.31	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5974	18769	31717	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
5974	18769	31718	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
6096	18874	31842	1.02	5.0E-45	11496398	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6096	18874	31843	1.02	5.0E-45	11496398	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8174	20969	34000	0.73	5.0E-45	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8939	21630	34773	1.95	5.0E-45	4759223	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA
11697	24362	37617	2.50	5.0E-45	8623696	NT	Homo sapiens golgin-like protein (GLP), mRNA
1121	13977	29539	9.59	4.0E-45	X95928.1	NT	H. sapiens ART4 gene
2289	15014	27750	2.42	4.0E-45	BE269622.1	EST_HUMAN	801194440F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3598425 5'
8959	21549		0.82	4.0E-45	AA226220.1	EST_HUMAN	nc26607.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1 repetitive element;
4068	19085		1.35	3.0E-45	T71480.1	EST_HUMAN	y03507.1 Scores fetal liver spleen 1NF1S Homo sapiens cDNA clone IMAGE:110245 5'
8142	18920	31800	1.36	3.0E-45	6753651	NT	Mus musculus dyshin, exon, heavy chain 11 (Dyshct11), mRNA
8142	18920	31801	1.36	3.0E-45	6753651	NT	Mus musculus dyshin, exon, heavy chain 11 (Dyshct11), mRNA
8350	21043		1.4	3.0E-45	AV723978.1	EST_HUMAN	AV723978 HTB Homo sapiens cDNA clone HTBAAG01 5'
8990	21382	34528	3.74	3.0E-45	4759451	NT	Homo sapiens golgi autoantigen, poligin subfamily a, 2 (GOLGA2) mRNA
10206	22854	35098	13.43	3.0E-45	AL183227.2	NT	Homo sapiens chromosome 21 segment HS21C027
10206	22854	35099	13.43	3.0E-45	AL183227.2	NT	Homo sapiens chromosome 21 segment HS21C027
12670	25314		2.35	3.0E-45	X98211.1	NT	H. sapiens DNA for endogenous retroviral like element
2508	15223		2.21	2.0E-45	AL183218.2	NT	Homo sapiens chromosome 21 segment HS21C018
3026	15795	28441	1.22	2.0E-45	AJ249213.1	NT	Homo sapiens perlecan E-H-T4 receptor gene, exons 2 to 5
6429	19197	32184	5.15	2.0E-45	L01065.1	NT	Human eosinophil Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1
7510	20181	33274	1.22	2.0E-45	BE782184.1	EST_HUMAN	801467763F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3570838 5'
8314	21007	34145	0.78	2.0E-45	AW834834.1	EST_HUMAN	RCO-LT0001-150200-032-d11 LT0001 Homo sapiens cDNA
9486	22138	35318	0.48	2.0E-45	AI698786.1	EST_HUMAN	ss55601.x1 NCI_CGAP_K948 Homo sapiens cDNA clone IMAGE:2239552 3'
10705	25130	36633	18.28	2.0E-45	BE634350.1	EST_HUMAN	MF0-H1T0923-180800-201-s02 HT0923 Homo sapiens cDNA
11126	23767	37073	4.16	2.0E-45	AA458770.1	EST_HUMAN	aa8712.1 Stratiotes feld rRNA 837202 Homo sapiens cDNA clone IMAGE:838319 5' similar to
11488	24089	37400	1.75	2.0E-45	AW270280.1	EST_HUMAN	TR-G1144599 G1144599 R-SLY1
11488	24089	37401	1.75	2.0E-45	AW270280.1	EST_HUMAN	xp72803.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745968 3'
12711	24987		3.93	2.0E-45	11418157	NT	xp72803.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745968 3'
120	13185		-1.6	1.0E-45	BE389855.1	EST_HUMAN	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
400	13185		2.17	1.0E-45	BE388855.1	EST_HUMAN	901284300F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'
400	13245	25987	1.38	1.0E-45	4508412	NT	Homo sapiens RAPIA, member of RAS oncogene family (RAPIA), mRNA
1151	13903	26599	1.79	1.0E-45	7657280	NT	Homo sapiens Langerhans cell specific c-type lectin (LANGERIN), mRNA
3101	15898	28507	7.42	1.0E-45	U32189.1	NT	Human pro- $\alpha 2$ chain of collagen type XI (COL11A2) gene, complete cds
3483	16240	28907	1.38	1.0E-45	8650598	NT	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA
3590	16315	28982	1.19	1.0E-45	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
4442	17178	29804	5.01	1.0E-45	BE390683.1	EST_HUMAN	901289118F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619803 5'
4677	17411		1.04	1.0E-45	H57443.1	EST_HUMAN	y05502.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:2049363 5'
7930	20625	33752	0.77	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
7930	20625	33753	0.77	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8505	21197	34341	0.96	1.0E-45	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9019	21709	34601	5.08	1.0E-45	BE887843.1	EST_HUMAN	901511220F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3612535 5'
9422	22100	35272	1.22	1.0E-45	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11734	24327	37861	1.33	1.0E-45	7019570	NT	Homo sapiens alpha-catenin-like protein (VR22), mRNA
12087	24592	31125	0.83	1.0E-45	11418058	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
12363	24708		11.18	1.0E-45	11528291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12599	24711		5.28	1.0E-45	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12680	24959	30981	2.6	1.0E-45	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
8127	20821	33958	1.7	9.0E-46	5910283	NT	Mus musculus keratin complex 2, gene 6g (K62-6g), mRNA
8532	21224		5.86	9.0E-46	AL183208.2	NT	Homo sapiens chromosome 21 segment HS210309
10379	23024	36239	11.23	9.0E-46	AW246964.1	EST_HUMAN	2822449 SpTome NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822449 5'
2443	15162	27869	13.53	8.0E-46	AL433261.1	EST_HUMAN	932068.x1 NCI_CGAP_G444 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb:J00314_ma2
2443	15162	27900	13.53	8.0E-46	AL433261.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
7953	20848		5.93	8.0E-46	BE167244.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
2232	14960	27700	1.03	7.0E-46	U46007.1	NT	Rattus norvegicus septin mRNA, complete cds
4541	17270		3.36	7.0E-46	BE396105.1	EST_HUMAN	90127725F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618119 5'
4755	17487		1.33	7.0E-46	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
5951	18733	31692	4.01	7.0E-46	8922708	NT	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
6402	18171	32170	1.14	7.0E-46	BF103845.1	EST_HUMAN	901622835F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4042736 5'
2759	15464	28207	3.99	6.0E-46	AL894381.1	EST_HUMAN	w83108.x1 NCI_CGAP_UK Homo sapiens cDNA clone IMAGE:2437576 3' similar to contains MIER19.12 MIER19 repetitive element

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2750	15464	28208	3.99	6.0E-46	AB84381.1	EST_HUMAN	wms10b.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.12 MER19 repetitive element;
6038	18818	31779	10.84	6.0E-46	AB35448.1	EST_HUMAN	bs8h10.x1 NCI CGAP_K48 Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:O60363 O60363 SA GENE;
7116	18804	32888	0.72	6.0E-46	AW513244.1	EST_HUMAN	xd2d04.x1 NCI CGAP_U11 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb:U08068 DNJ PROTEIN HOMOLOG 2 (HUMAN);
11304	23175	32788	2.04	6.0E-46	BE784671.1	EST_HUMAN	601478409F1 NH_MGC_68 Homo sapiens cDNA clone IMAGE:3880995 5'
199	13012	32738	8.9	6.0E-46	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3519	16276	28929	1.07	6.0E-46	BE677184.1	EST_HUMAN	7281g01.x1 Lupaiki dorsal root ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
3519	16276	28930	1.07	6.0E-46	BE677194.1	EST_HUMAN	7281g01.x1 Lupaiki dorsal root ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
6636	18998	32413	1.96	6.0E-46	BF590442.1	EST_HUMAN	nas3907.x1 NCI CGAP_K011 Homo sapiens cDNA clone IMAGE:328757 3' similar to TR:O15202 O15202 HOMOLOG OF RAT KIDNEY-SPECIFIC;
6842	19542	32570	4.29	6.0E-46	BF347228.1	EST_HUMAN	602021164F1 NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4156670 5'
6895	19687	32738	0.62	6.0E-46	AW582283.1	EST_HUMAN	QV4-ST0212-120100-075-006 ST0212 Homo sapiens cDNA
9515	22188	35950	0.47	6.0E-46	AA398381.1	EST_HUMAN	z62c08.x1 Scores_teste_NHT Homo sapiens cDNA clone IMAGE:726228 3'
628	13405		1.4	4.0E-46	AA601143.1	EST_HUMAN	nc54409.x1 NCI CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_mai FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
1088	14442	27140	6.88	4.0E-46	AW770544.1	EST_HUMAN	H8a03.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008838 3' similar to gb:X14008_mai LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element;
1089	14442	27141	6.88	4.0E-46	AW770544.1	EST_HUMAN	H8a03.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008838 3' similar to gb:X14008_mai LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element;
2743	15449	28188	2.62	4.0E-46	M18048.1	NT	Human endogenous retrovirus RTVL-H2
4384	17121	28753	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
4384	17121	29754	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
5350	18153	30834	2.43	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
5350	18153	30835	2.43	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
12513	24893	31014	2.71	4.0E-46	AB002059.1	NT	Homo sapiens DNA for Human P2X4, complete cds
2105	14896	27818	0.9	3.0E-46	5453820	NT	Homo sapiens solute carrier family 35 (GMP-saltic acid transporter), member 1 (SLC35A1), mRNA
2429	15150	27884	0.96	3.0E-46	AF160212.1	NT	Homo sapiens VAMP-associated 33 kDa protein mRNA, complete cds
4382	17100	29735	0.79	3.0E-46	4506378	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA
4724	17496	30091	1.2	3.0E-46	Z79860.1	NT	H. sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Lambda; VLambda

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4724	17456	30092	1.2	3.0E-46	Z73660.1	NT	H.sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Light-Lambda; V_Lambda
8947	21339	34483	7.59	3.0E-46	A081492.1	EST_HUMAN	W49004.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2408160 3' similar to contains THR.b2
11584	24163	37474	2.19	3.0E-46	D31765.1	NT	Human repetitive element 1; Human mRNA for KIAA0001 gene, partial cds
817	13588	26255	7.64	2.0E-46	AA468846.1	EST_HUMAN	nc06409.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
1554	14301		1.55	2.0E-46	AA678246.1	EST_HUMAN	repetitive element 1; 2577411.s1 Scores, fetal_liver_spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:431890 3'
1637	14383	27070	3.43	2.0E-46	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTF3 (FTF3) genes, complete cds
4917	17645	30258	1.2	2.0E-46	AA366286.1	EST_HUMAN	259402.1 Scores, testis, NHT Homo sapiens cDNA clone IMAGE:720650 5' similar to SW_RSP1_MOUSE Q01750 RSP-1 PROTEIN.1;
7384	20064	33142	7.07	2.0E-46	9910590	NT	Mus musculus sperm tail associated protein (Slap), mRNA
7988	20963		1.46	2.0E-46	BE869181.1	EST_HUMAN	601443137F1 NIH_MGC_05 Homo sapiens cDNA clone IMAGE:3646297 5'
12257	25179		1.5	2.0E-46	H46391.1	EST_HUMAN	y22807.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:206977 5'
12575	25170	30902	3.38	2.0E-46	AW27214.1	EST_HUMAN	xq78n03.x1 NCI_CGAP_Lu84 Homo sapiens cDNA clone IMAGE:2765789 3'
1211	13061	26628	7.57	1.0E-46	4502694	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
1596	14313	29569	1.23	1.0E-46	7682177	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
1506	14313	27000	1.23	1.0E-46	7682177	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
2276	15005	27745	3.44	1.0E-46	AW978516.1	EST_HUMAN	EST390625 MAGE resequenced, MAGP Homo sapiens cDNA
2399	15120	27857	3.06	1.0E-46	H97330.1	EST_HUMAN	EST480095 WATM1 Homo sapiens cDNA clone 480095
3243	18005	28654	4.55	1.0E-46	AA631912.1	EST_HUMAN	nc78602.s1 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1132305 similar to gb:X76717 H.sapiens
4818	17549	317	3.17	1.0E-46	AB023197.1	NT	MT-11 mRNA (HUMAN); Homo sapiens mRNA for KIAA0980 protein, partial cds
5613	18409	31322	0.88	1.0E-46	AB023197.1	EST_HUMAN	7622501.x1 NCI_CGAP_OV18 Homo sapiens cDNA clone IMAGE:3643705 3'
5888	25060	31617	6.14	1.0E-46	8923762	NT	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
5888	25060	31618	6.14	1.0E-46	8923762	NT	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
10770	18409	31322	5.27	1.0E-46	BF164707.1	EST_HUMAN	7622501.x1 NCI_CGAP_OV18 Homo sapiens cDNA clone IMAGE:3643705 3'
11747	24338	37685	1.53	1.0E-46	AW023178.1	EST_HUMAN	df50603.y1 Morion Fetal Cochlea Homo sapiens cDNA clone IMAGE:2468861 5'
11747	24338	37686	1.53	1.0E-46	AW023178.1	EST_HUMAN	df50603.y1 Morion Fetal Cochlea Homo sapiens cDNA clone IMAGE:2468861 5'
12044	24564	31115	2.28	1.0E-46	BF631102.1	EST_HUMAN	602072264F1 NCI_CGAP_Bmr7 Homo sapiens cDNA clone IMAGE:4215398 5'
12044	24564	31116	2.28	1.0E-46	BF631102.1	EST_HUMAN	602072264F1 NCI_CGAP_Bmr7 Homo sapiens cDNA clone IMAGE:4215398 5'
12778	25032		2.37	1.0E-46	AV716377.1	EST_HUMAN	AV716377 DOB Homo sapiens cDNA clone DCBAE03 5'
750	13522		6.16	9.0E-47	AJ271736.1	NT	Homo sapiens Xq pseudobacterial region; segment 1/2

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4879	17606	30229	3.02	9.0E-47	AW770628.1	EST_HUMAN	H33cd4.1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008534 3' similar to TR:075703 O75703
6284	19057	32037	0.6	9.0E-47	11425439	NT	HYPOTHETICAL 12.4 KD PROTEIN ;
12631	26270	30726	2	9.0E-47	11417888	NT	Homo sapiens zinc finger protein ZNF286 (ZNF286), mRNA
1801	18441	27252	6.88	8.0E-47	Y18336.1	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
1801	14541	27252	6.88	8.0E-47	Y18336.1	NT	Homo sapiens HLA-C gene, exon 5, individual 16323
1801	14541	27253	6.88	8.0E-47	Y18336.1	NT	Homo sapiens HLA-C gene, exon 6, individual 16323
2722	15428	28167	1.04	8.0E-47	6463966	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (P56), epsilon isoform (PPP2R5E) mRNA
3024	15790	28438	1.89	8.0E-47	AJ229043.1	NT	Homo sapiens 95b kb contig between AML1 and CBIR1 on chromosome 21q22, segment 3/3
3613	18366	29009	0.88	8.0E-47	AB041026.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
3613	16366	28010	0.88	8.0E-47	AB041026.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
12904	25169	23169	1.38	7.0E-47	AF683284.1	EST_HUMAN	AV683284 GKO Homo sapiens cDNA clone GKCA5H111 5'
2650	12365	28000	1.68	8.0E-47	AI163462.2	NT	Homo sapiens chromosome 21 segment HS21G046
8682	21284	34428	0.49	6.0E-47	U77054.1	EST_HUMAN	HSU77054 Human Homo sapiens cDNA clone N7
9176	21846	35012	6.76	6.0E-47	AF965186.1	EST_HUMAN	tz98H02.x1 NCI_CGAP_JGd11 Homo sapiens cDNA clone IMAGE:2266859 3'
9612	22265	35450	0.88	8.0E-47	AB042624.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
9612	22265	35450	0.88	8.0E-47	AB042624.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
6482	19249	32246	6.57	5.0E-47	11423972	NT	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homologue) (CDC37), mRNA
10636	23397	28801	5.27	5.0E-47	M78560.1	EST_HUMAN	EST007338 Fetal brain, <i>Stratagene</i> (cd0835206) Homo sapiens cDNA clone HFB0707
1378	14126	28801	3.29	4.0E-47	4557558	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
6733	19597	32689	1.9	4.0E-47	BE598968.1	EST_HUMAN	MR4-TN0108-280800-201-d04 TN0108 Homo sapiens cDNA
8370	21072	34210	2.42	4.0E-47	BE510433.1	EST_HUMAN	601280468F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
8370	21072	34211	2.42	4.0E-47	BE510433.1	EST_HUMAN	601280468F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
8516	21206	34367	0.61	4.0E-47	AW963777.1	EST_HUMAN	RC3-BN0034-220300-015-006 BN0034 Homo sapiens cDNA
11635	24232		2.83	4.0E-47	AW516506.1	EST_HUMAN	x68b067.x3 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2848597 3' similar to SW:INT6_MOUSE
831	13316	25860	2.06	3.0E-47	BE507834.1	EST_HUMAN	Q64232 VIRAL INTEGRATION SITE PROTEIN INT-6, [1] ;
831	13316	25861	2.05	3.0E-47	BE507834.1	EST_HUMAN	601467636F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3689721 5'
799	13571	26232	6.45	3.0E-47	NS7483.1	EST_HUMAN	601467636F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3689721 5'
924	13691	26366	10.26	3.0E-47	AI163284.2	NT	Y65404.s1 <i>Sacchara</i> multiple sclerosis 2N1b1MSP Homo sapiens cDNA clone IMAGE:277327 3'
3296	19058	28707	0.79	3.0E-47	4504116	NT	Homo sapiens chromosome 21 segment HS21G084
3048	16868	28707	5.77	3.0E-47	U93181.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4328	17068	28669	1.32	3.0E-47	AW12069.1	NT	Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds
5922	18707	31659	5.41	3.0E-47	AW408900.1	NT	Homo T-cell receptor active alpha-chain mRNA from JM cell line, complete cds
							UHFH-BMD-abc-k-07-0-UT1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'

Page 296 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5922	18707	31690	5.41	3.0E-47	AW408900.1	EST_HUMAN	UIH-F-BMO-adv-4-07-Q-ULR1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3068205 6'
8469	19236		1.78	3.0E-47	AZ22413.1	EST_HUMAN	d04e07.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843718 3'
8752	21424	34959	0.71	3.0E-47	AW963796.1	EST_HUMAN	EST1375699 IMAGE resequences, MAGH Homo sapiens cDNA
8732	21424	34570	0.71	3.0E-47	AW963796.1	EST_HUMAN	EST1375699 IMAGE resequences, MAGH Homo sapiens cDNA
143	12658	25600	1.81	2.0E-47	4505318	NT	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
947	13713	26377	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
947	13713	26378	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1590	14307		0.98	2.0E-47	A868279.1	EST_HUMAN	wq58b02.x1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:2476851 3'
1598	14334	27022	1.75	2.0E-47	7682708	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
1673	14418	27111	3.41	2.0E-47	AA524514.1	EST_HUMAN	ng43h12.x1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:937607 3'
4313	17052	29677	2	2.0E-47	4504888	NT	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA
4351	17050	29722	1.5	2.0E-47	AA568952.1	EST_HUMAN	nf23g07.x1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:914652
4351	17050	29723	1.5	2.0E-47	AA568952.1	EST_HUMAN	nf23g07.x1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:914652
4471	17206	29832	1.98	2.0E-47	5174648	NT	Homo sapiens Rawfex activation domain binding protein-related (RAB-R) mRNA
4761	17463	30121	1.3	2.0E-47	AW985188.1	EST_HUMAN	EST1377238 IMAGE resequences, MAGH Homo sapiens cDNA
5936	18490	31411	1.12	2.0E-47	AF073921.1	NT	Homo sapiens regulator of G-protein signalling 6 variant form (RG58) mRNA, complete cds
5887	18673	31615	1.23	2.0E-47	BE778475.1	EST_HUMAN	601453932.F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3967487 5'
5887	18673	31616	1.23	2.0E-47	BE778475.1	EST_HUMAN	601453932.F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3967487 5'
7596	23116		1.43	2.0E-47	L09731.1	NT	Homo sapiens 5-hydroxytryptamine 1D receptor pseudogene with an Alu repeat insertion
7854	20559	33885	1.92	2.0E-47	D87075.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
7854	20559	33886	1.92	2.0E-47	D87075.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8618	21310	34452	1.67	2.0E-47	AF071771.1	NT	Homo sapiens SPH-binding factor mRNA, partial cds
9359	22051	35222	0.77	2.0E-47	11520138	NT	Homo sapiens BTG family, member 3 (BTG3), mRNA
11451	23218	38451	1.27	2.0E-47	MF9125.1	NT	Human tyrosine kinase receptor (ad) mRNA, complete cds
12077	25312	30709	1.75	2.0E-47	R42423.1	EST_HUMAN	yf92a03.x1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:26668 3' similar to contains OFR repetitive element
1394	14131	28804	7.35	1.0E-47	A333429.1	EST_HUMAN	q599h03.x1 Scores_fetal Jung_NHL19W Homo sapiens cDNA clone IMAGE:1831189 3'
5017	17738	30347	1.98	1.0E-47	AW813808.1	EST_HUMAN	RC3-ST0197-150400-017-R02 ST0197 Homo sapiens cDNA
							at19e00.x1 Barlsted acra HPLR8B Homo sapiens cDNA clone IMAGE:2365586 3' similar to gb:M22906
6944	19426	32441	6.79	1.0E-47	A880898.1	EST_HUMAN	RAS-RELATED PROTEIN RAP-1A (HUMAN)
6797	21459		0.59	1.0E-47	AW694948.1	EST_HUMAN	H84t11.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2970872 3' similar to gb:M29328
10254	22902	36112	2.28	1.0E-47	130115.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN)
							PERKIN, a novel human alcohol dehydrogenase class I (ADH) gene, 5' region

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1607	14353	27041	3.03	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3544	16299	28900	0.82	9.0E-48	BF35947.1	EST_HUMAN	CN2-M70100-310700-200-005 M70100 Homo sapiens cDNA
5594	18386	31299	0.96	9.0E-48	BE885198.1	EST_HUMAN	001511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913108 5'
5594	18386	31300	0.98	9.0E-48	BE885199.1	EST_HUMAN	001511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913108 5'
6010	18791	31754	0.96	9.0E-48	AB53168.1	EST_HUMAN	4715909.X1 Bacterial clone HPLR87 Homo sapiens cDNA clone IMAGE:2377899 3' similar to TR-O60844
6131	18809	31877	0.84	9.0E-48	AU123240.1	EST_HUMAN	C06844 HOMOLOG OF RAT ZMOGEN GRANULE MEMBRANE PROTEIN ;
11090	23730	37002	3.05	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1006978 5'
1228	13678		1.44	8.0E-48	4501900	NT	001310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1229	13678		1.7	8.0E-48	4501900	NT	Homo sapiens antrocyase 1 (ACY1), mRNA
3132	15897	28541	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens antrocyase 1 (ACY1), mRNA
3132	15897	28542	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens antrocyase 1 (ACY1), mRNA
3911	16061	28302	0.79	8.0E-48	4504116	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
478	13284		1.27	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
479	13284		17.09	7.0E-48	AB033035.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
1463	14230	28916	0.98	7.0E-48	6912719	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1634	14380	27067	3.99	7.0E-48	5730038	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
6460	19227	32227	27.21	7.0E-48	11418831	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
5987	18149	31710	0.91	6.0E-48	AB008955.1	NT	Homo sapiens taurine kinase 1 (TLK1), mRNA
6688	19005	32645	1.08	6.0E-48	11420665	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
7365	25111	33123	0.98	6.0E-48	AB046844.1	NT	Homo sapiens BAX non-receptor tyrosine kinase (BAX), mRNA
7365	25111	33124	0.98	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9022	21712	34666	2.07	6.0E-48	AF026816.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9441	22119	35296	1.74	6.0E-48	11427428	NT	Homo sapiens putative oncogene protein mRNA, partial cds
9588	22241	35425	3.2	6.0E-48	AA180800.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ111006 (FLJ11006), mRNA
3304	17878	28713	1.94	5.0E-48	4829897	NT	2945006.s1 Synapsin II neuron (#637233) Homo sapiens cDNA clone IMAGE:332627 3' similar to contains Alu repetitive element;
8474	21166	34310	1.26	5.0E-48	BE064410.1	EST_HUMAN	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
11603	24202	37624	1.39	5.0E-48	AW680280.1	EST_HUMAN	RC4-B103311-141198-071-H06 B103311 Homo sapiens cDNA
10878	23558	36805	3.96	4.0E-48	AB020420.1	EST_HUMAN	MR0-NT0039-010500-002-008 NT0039 Homo sapiens cDNA
1364	14112	20786	1.27	3.0E-48	AV650964.1	EST_HUMAN	bu47802.x1 NCI CGAP P128 Homo sapiens cDNA clone IMAGE:2264164 3'
							AV650964 GKC Homo sapiens cDNA clone GKCORE12 5'

Page 298 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1869	14705	27422	16.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1869	14705	27423	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3822	18375	29017	0.76	3.0E-48	AW084531.1	EST_HUMAN	h14b12.x1 NCL CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2872255 3' similar to SW-DOCRB_HUMAN
5804	18594	31519	2.47	3.0E-48	BE084571.1	EST_HUMAN	P55555 DOWN SYNDROME CRITICAL REGION PROTEIN B. ;
6819	18655	32701	0.94	3.0E-48	AF087913.1	NT	MR4-BT0657-980400-201-s10 BT0657 Homo sapiens cDNA
8290	20684		3.41	3.0E-48	AA659630.1	EST_HUMAN	Human endogenous retrovirus HERV-P-T470
10784	23467	38708	9.32	3.0E-48	BF514170.1	EST_HUMAN	mt0305.s1 NCL CGAP_P122 Homo sapiens cDNA clone IMAGE:1216137 3' similar to contains PTR5.b1
44	12873	25485	1.71	2.0E-48	AA631940.1	EST_HUMAN	PTR5 repetitive element ;
1197	13949		5.15	2.0E-48	H24278.1	EST_HUMAN	UJH-BW1-ent-10-0.U1.s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082287 3'
4496	17231	28981	1.42	2.0E-48	BE249085.1	EST_HUMAN	tmf67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone GR17-28
5724	18516	31439	0.61	2.0E-48	AA613171.1	EST_HUMAN	ym55a10.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to
5724	18516	31437	0.61	2.0E-48	AA613171.1	EST_HUMAN	SP-M8B_MOUSE P35903 MEMBRANE GLYCOPROTEIN ;
7419	20098	33182	4.77	2.0E-48	AB040934.1	NT	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo
7419	20098	33183	4.77	2.0E-48	AB040934.1	NT	sapiens cDNA clone TCBAP3842
7432	20109	33197	3.35	2.0E-48	11490238	NT	nc18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
8253	20947	34064	1.33	2.0E-48	AV743451.1	EST_HUMAN	nc18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
12041	17888	30486	4.27	2.0E-48	AA485007.1	EST_HUMAN	Homo sapiens mRNA for KIAA1801 protein, partial cds
12367	26232	30620	1.88	2.0E-48	BE737154.1	EST_HUMAN	Homo sapiens viral aden retrovirus-like virus viral oncogene homolog A (nuclear factor of kappa light
12716	13949		1.34	2.0E-48	H24278.1	EST_HUMAN	polyomavirus enhancer in B-cells 3 (p65) (REL), mRNA
54	12863	25511	2.3	1.0E-48	7709534	NT	AV743451 CB Homo sapiens cDNA clone CBCCGG10 5'
893	13623	26283	17.13	1.0E-48	4502106	NT	z68043.r1 Soares ovary tumor N8HOT Homo sapiens cDNA clone IMAGE:810062 5'
1273	14023	28681	3.77	1.0E-48	5032032	NT	g07305004.F1 NIH MGCC 39 Homo sapiens cDNA clone IMAGE:3639782 5'
1811	14648	27359	30.36	1.0E-48	AL163302.2	NT	ym55a10.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to
3481	18238	28984	0.98	1.0E-48	AL163248.2	NT	SP-M8B_MOUSE P35903 MEMBRANE GLYCOPROTEIN ;
5081	17780	30398	1.5	1.0E-48	M10978.1	NT	Homo sapiens calsin1 resistance-associated overexpressed protein (LOC51747), mRNA
6195	18971	31949	1.17	1.0E-48	AB89077.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (precursor protein (precursor protein) (APP), mRNA

Page 299 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6165	18971	31947	1.17	1.0E-48	AB89077.1	EST_HUMAN	bt170d1.x1 NCI_QGAP_Cort8 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941:
6407	19176		0.94	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6500	19295	32288	0.71	1.0E-48	AB028864.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6500	19295	32287	0.71	1.0E-48	AB028864.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7157	19844	32813	2.52	1.0E-48	4755137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
8730	21422	34586	0.76	1.0E-48	47588693	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8730	21422	34587	0.76	1.0E-48	47588693	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8113	21801	34988	0.84	1.0E-48	4502638	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
8168	21858	35004	6.4	1.0E-48	AB033071.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
8481	22134	35314	5.33	1.0E-48	BF304683.1	EST_HUMAN	801888098F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10286	22917	36127	4.08	1.0E-48	11428608	NT	Homo sapiens B cell linker protein (SLP65) mRNA
10286	22917	36128	4.08	1.0E-48	11428608	NT	Homo sapiens B cell linker protein (SLP65) mRNA
2002	14737	27491	1.73	8.0E-49	AB028497.1	NT	Mus musculus MyoPDZ mRNA for myosin containing PDZ domain, complete cds
5992	18744	31704	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
5992	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8194	20888	34028	3.17	8.0E-49	U23850.1	NT	Human Inositol 1,4,5 trisphosphate receptor type 1B, partial cds
8888	22539	35733	1.16	8.0E-49	AB008831.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
135	13171	25814	1	7.0E-49	5728960	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA) mRNA
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA) mRNA
384	13171	25814	1.73	7.0E-49	6725960	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA) mRNA
384	13171	25815	1.73	7.0E-49	6728960	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA) mRNA
385	13171	25814	2.84	7.0E-49	5728960	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA) mRNA
385	13171	25815	2.84	7.0E-49	5728960	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA) mRNA
1198	13951	26615	3.4	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
8373	19173	30862	2.11	7.0E-49	AB07191.1	EST_HUMAN	W25904.x1 Soares_NFL_T_GSG_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:054923
5363	18163	30873	1.49	7.0E-49	AL120637.1	EST_HUMAN	O54923 RSEC15; DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762C033 3'
5716	18173	30862	0.87	7.0E-49	AB07191.1	EST_HUMAN	W25904.x1 Soares_NFL_T_GSG_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:054923
192	13005	25648	12.12	6.0E-49	AW731740.1	EST_HUMAN	bc55905.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2600504 3' similar to gb:U17206.40S
4095	18837	22464	1.27	6.0E-49	AL162061.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:U20682 Mouse L1Rps3 protein mRNA from a repetitive element, complete (MOUSE); DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6349	19119	32108	0.94	6.0E-49	AU140742.1	EST_HUMAN	AU140742 PLACE4 Homo sapiens cDNA clone IMAGE:400148 5'
7314	19997	33076	0.69	6.0E-49	AW511235.1	EST_HUMAN	U44602.X1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2812378 3' similar to TR:O95638
9833	22285	35476	0.45	6.0E-49	9910263	NT	O95638 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II;
9833	22285	35476	0.45	6.0E-49	9910263	NT	Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
11248	23910	37202	2.5	6.0E-49	AW45218.1	EST_HUMAN	Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
11661	24257	37579	2.6	6.0E-49	AA396556.1	EST_HUMAN	EST77625 Pancreas tumor III Homo sapiens cDNA clone IMAGE:3069048 3'
11661	24257	37579	2.6	6.0E-49	AA396556.1	EST_HUMAN	EST77625 Pancreas tumor III Homo sapiens cDNA 5' end
11661	24257	37579	2.6	6.0E-49	AA396556.1	EST_HUMAN	EST77625 Pancreas tumor III Homo sapiens cDNA 5' end
12362	25151	37580	2.03	6.0E-49	AA707667.1	EST_HUMAN	EST77625 Pancreas tumor III Homo sapiens cDNA 5' end
695	13470	28117	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
695	13470	28118	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1786	14527	27295	3.49	5.0E-49	AA172121.1	EST_HUMAN	228507.r1 Stragene neuroepithelium (4637231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:O333228 G233228 RTVL-H PROTEIN; contains LTR7; contains LTR7; LTR7 repetitive element;
2764	15459	28201	4.25	5.0E-49	U17714.1	NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3287	16029	28878	2.84	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 4) (H. sapiens) (LOC88382), mRNA
612	13296	25927	47.84	4.0E-49	AW189533.1	EST_HUMAN	X08501.X1 NC1_CGAP_U44 Homo sapiens cDNA clone IMAGE:2875583 3' similar to WP_B0330_2B
7172	19858	32930	0.95	4.0E-49	11525737	NT	CE05703;
7172	19858	32931	0.95	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8 (GALNAc-T8) (GALNT8), mRNA
7710	20374	33488	0.9	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8 (GALNAc-T8) (GALNT8), mRNA
8763	21456	34604	0.47	4.0E-49	7602209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
8763	21455	34605	0.47	4.0E-49	11423374	NT	Homo sapiens copine III (CPNE3), mRNA
12221	25368		4.21	4.0E-49	11423374	NT	Homo sapiens copine III (CPNE3), mRNA
12306	24730			4.0E-49	AA210786.1	EST_HUMAN	228507.r1 NC1_CGAP_G081 Homo sapiens cDNA clone IMAGE:882877 5'
547	13330	28661	1.73	3.0E-49	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2654	15364		1.9	3.0E-49	AA016131.1	EST_HUMAN	H. sapiens mRNA for acetyl-CoA carboxylase
4923	17651	30264	2.33	3.0E-49	U46666.1	NT	2831 c05.r1 Soares retina N28-4-R Homo sapiens cDNA clone IMAGE:300584 5' similar to contains L1.18 L1 repetitive element;
7310	20002	33081	11.87	3.0E-49	H39478.1	EST_HUMAN	Human type IV collagen (COL4A6) gene, exon 40
							EST25912 WATM1 Homo sapiens cDNA clone 25912

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11272	29633	37226	1.98	3.0E-49	AA337581.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 5' end
646	13425		2.94	2.0E-49	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3216	15679	28530	1.64	2.0E-49	N26446.1	EST_HUMAN	Y22A06.11 Soares melanocyte 2NHMM Homo sapiens cDNA clone IMAGE:262571 5'
4746	17478	30110	0.68				q288002.1 Soares, perinecrotic, fibroblast, NIH-SF Homo sapiens cDNA clone IMAGE:1082403 3' similar to repetitive element:
4758	17480	30118	0.74	2.0E-49	AI167357.1	EST_HUMAN	UHHBM-aps-d-020-0-J1.1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:308658 3'
6637	19360	32414	1.17	2.0E-49	AF071783.1	EST_HUMAN	AV717838 DCS Homo sapiens cDNA clone DCB8ALB01 5'
7968	20963		1.74	2.0E-49	M69033.1	EST_HUMAN	EST02558 Fetal brain, Striatum (cat398206) Homo sapiens cDNA clone HFBCY60
12316	25250		2.07	2.0E-49	AF103964.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
879	13648		5	1.0E-49	BF095327.1	EST_HUMAN	601459531F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3962086 5'
1546	14292	20978	1.11	1.0E-49	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1794	14534	27243	4.82	1.0E-49	BE255216.1	EST_HUMAN	60115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
5275	18080	30737	6.82	1.0E-49	BF131007.1	EST_HUMAN	60182003F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
5986	18787	31731	0.88	1.0E-49	H18291.1	EST_HUMAN	Yr4804.1 Soares adult brain N2554B55Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP-GBG1
5992	18773	31738	5.55	1.0E-49	AW064640.1	EST_HUMAN	EST376773 IMAGE resequences, MAGH Homo sapiens cDNA
7117	19805	32869	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCYD11 5'
7117	19805	32870	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCYD11 5'
7123	19811	32878	3.55	1.0E-49	BE398110.1	EST_HUMAN	601280330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620683 5'
7123	19811	32879	3.55	1.0E-49	BE398110.1	EST_HUMAN	601280330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620683 5'
7200	19886	32980	2.21	1.0E-49	N25884.1	EST_HUMAN	Yr78/12.1 Soares, placenta, 8kbw/8kbw 2NH-P86AW Homo sapiens cDNA clone IMAGE:258408 3' similar to gp-X65873 KINESIN HEAVY CHAIN (HUMAN);
7200	19886	32981	2.21	1.0E-49	N25884.1	EST_HUMAN	Yr78/12.1 Soares, placenta, 8kbw/8kbw 2NH-P86AW Homo sapiens cDNA clone IMAGE:258408 3' similar to gp-X65873 KINESIN HEAVY CHAIN (HUMAN);
7977	20672	33795	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20672	33796	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8575	21267		0.68	1.0E-49	6964184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8881	21582	34721	1.29	1.0E-49	BE409340.1	EST_HUMAN	601300982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638308 5'
10026	22674	35989	1.58	1.0E-49	AL043129.2	EST_HUMAN	DKFZp434D2423 J1 434 (synonym: HES3) Homo sapiens cDNA clone DKFZp434D2423 5'
10979	23654	36907	1.43	1.0E-49	AV761477.1	EST_HUMAN	AV761477 NPD Homo sapiens cDNA clone NPDAWIE04 5'
11261	23942	37236	3.32	1.0E-49	11427368	NT	Homo sapiens bradycardia-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12215	24677		2.46	1.0E-49	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
4637	17895		1.4	9.0E-60	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8310	25421		0.95	8.0E-50	BE285798.1	EST_HUMAN	601170250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
198	12890	25519	4.05	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
702	13477	26125	2.54	8.0E-50	X80987.2	NT	Homo sapiens mRNA for VIP receptor 2
702	13477	26126	2.54	8.0E-50	X80987.2	NT	Homo sapiens mRNA for VIP receptor 2
1758	14500	27201	2.82	8.0E-50	4501900	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2703	15410	28147	1.48	8.0E-50	4826058	NT	Homo sapiens capping protein (cap protein) muscle Z-line, beta (CAPZB), mRNA
2833	14691		15.7	8.0E-50	D80334.1	NT	Homo sapiens hepatocyte growth factor (HGF) gene, exon 18
11385	23902	37293	1.29	8.0E-50	AA633487.1	EST_HUMAN	re22406.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130897 3' similar to gb:J05459
605	13383	20015	0.78	7.0E-50	BE086981.1	EST_HUMAN	GLUTATHIONE S-TRANSFERASE TESTIS-BRAIN (HUMAN);
6987	13604	32643	1.06	7.0E-50	BF091922.1	EST_HUMAN	QV0-BT0703-280400-211-c08 BT0703 Homo sapiens cDNA
6987	13604	32644	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7205	19890	32688	0.8	7.0E-50	AA627822.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
10658	23347	36584	7.65	7.0E-50	AB72137.1	EST_HUMAN	ncs612.s1 NCI_CGAP_C09 Homo sapiens cDNA clone IMAGE:1148208 3' similar to gb:X66391 60S
4309	17048		0.88	8.0E-50	BE794381.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN);
8112	20806		5.87	6.0E-50	BE044076.1	EST_HUMAN	wn55611.x1 NCI_CGAP_U02 Homo sapiens cDNA clone IMAGE:3643577 5'
10717	23408	36648	12.6	6.0E-50	AA312079.1	EST_HUMAN	h03904.x1 NCI_CGAP_U01 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3
10717	23408	36647	12.6	6.0E-50	AA312079.1	EST_HUMAN	MER29 repetitive element;
1785	14526	27233	1.1	5.0E-50	BF332638.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1785	14526	27234	1.1	5.0E-50	BF332638.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
8000	21680		5.26	5.0E-50	AA557683.1	EST_HUMAN	CM0-BT0702-300900-398-b05 BT0702 Homo sapiens cDNA
887	13685		1.71	4.0E-50	AA001143.1	EST_HUMAN	CM0-BT0702-300900-398-b05 BT0702 Homo sapiens cDNA
3441	16197	28847	0.99	4.0E-50	AL163248.2	NT	h45110.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1049683 similar to contains PTR5.3 PTR5
6288	15041	32018	0.98	4.0E-50	11440983	NT	re54409.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104620 3' similar to gb:X63741_maf1
7135	13822	32888	1.95	4.0E-50	BE087536.1	EST_HUMAN	FBULIN-1, ISOFORM A PRECURSOR (HUMAN);
1831	14697		4.13	3.0E-50	M18048.1	NT	Homo sapiens chromosome 21 segment HS21C048
3283	16054	28703	1.24	3.0E-50	AA748142.1	EST_HUMAN	Homo sapiens cystathionine synthetase (CATS), mRNA
3734	16487	28124	1.14	3.0E-50	AW795254.1	EST_HUMAN	QV1-BT0681-280300-127-f12 BT0681 Homo sapiens cDNA
							Human endogenous retrovirus RY14-H2
							db03106.s1 NCI_CGAP_K48 Homo sapiens cDNA clone IMAGE:1322927 3'
							CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151635 similar to CMYA5
							Cardiomyopathy associated gene 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6887	19584	32618	1.52	3.0E-50	11421514	NT	Homo sapiens similar to serine domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC53232), mRNA
7544	20214	33314	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
7544	20214	33315	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8481	21173	34318	0.71	3.0E-50	6901588	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9718	22308	35567	1.21	3.0E-50	AB046818.1	NT	Homo sapiens mRNA for KIAA1608 protein, partial cds
9727	22378	35560	0.99	3.0E-50	11418514	NT	Homo sapiens t-complex 10 (a murine top homolog) (TCPT10), mRNA
10077	22725	35942	0.47	3.0E-50	Y18278.1	NT	Mus musculus mRNA for neurobasin
10415	23081	36280	1.03	3.0E-50	AB002287.1	NT	Human mRNA for KIAA0289 gene, partial cds
11043	23715	36984	1.61	3.0E-50	11439935	NT	Homo sapiens Grib-associated binder 2 (KIAA0571), mRNA
11441	23208	38439	5.35	3.0E-50	AJ246921.1	NT	Homo sapiens CTL2 gene
780	13532		5.38	2.0E-50	AF055058.1	NT	Homo sapiens MHC class I region
1057	13515	29476	5.57	2.0E-50	4557752	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1), mRNA
1424	14171	26957	2.25	2.0E-50	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
8780	19513	32539	0.59	2.0E-50	AU124095.1	EST_HUMAN	AU124095 NT2842 Homo sapiens cDNA clone NT2842/2001609 5'
8215	20909	34044	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8216	20909	34045	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8355	21048	34186	10.04	2.0E-50	X06066.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8356	21048	34187	10.04	2.0E-50	X06066.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8358	21048	34188	10.04	2.0E-50	X06066.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9784	22435	35841	1.51	2.0E-50	6910233	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9784	22435	35842	1.51	2.0E-50	6910233	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11880	24256	36942	1.81	2.0E-50	AF023881.1	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
448	13235	25874	1.92	1.0E-50	AL163209.2	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
2395	15087		9.48	1.0E-50	AJ271735.1	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
10093	22741	35958	1.57	1.0E-50	DT1078.1	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
5893	18878	31624	1.21	9.0E-51	AW511225.1	EST_HUMAN	Homo sapiens ROR2 gene, retrovirus-like element
6130	18808	31878	0.71	9.0E-51	AA744637.1	EST_HUMAN	h444602.x1 Source: NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2812378 3' similar to TR:085536
8572	21284	34403	0.65	9.0E-51	AJ761154.1	EST_HUMAN	O95535 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
9224	21903	35075	1.23	9.0E-51	AA043738.1	EST_HUMAN	my67h03.s1 NC1_GAP_OC31 Homo sapiens cDNA clone IMAGE:1283381 3'
							ab23904.x5 Strategene Inc (4637210) Homo sapiens cDNA clone IMAGE:841098 3' similar to
							SW-PSM_HUMAN Q04009 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
							ab11009.r1 Source: pregnant_virus_NHPU Homo sapiens cDNA clone IMAGE:463562 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9400	22082	35231	0.86	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:841688 3' similar to SW-PSM_HUMAN Q04069 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
9400	22082	35232	0.86	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:841688 3' similar to SW-PSM_HUMAN Q04069 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
11455	23222	36458	1.89	8.0E-51	H88078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochrane Homo sapiens cDNA clone IMAGE:263210 5'
11455	23222	36457	1.89	8.0E-51	H88078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochrane Homo sapiens cDNA clone IMAGE:263210 5'
11823	18008	31878	1.43	9.0E-51	AA744837.1	EST_HUMAN	iyw7103.s1 NCJ CGAP GC81 Homo sapiens cDNA clone IMAGE:1283381 3'
4405	17142	28770	1.45	8.0E-51	4503632	NT	Homo sapiens glycine amidohydrolase (L-arginine:glycine amidohydrolase) (GATM) mRNA
4405	17142	28771	1.45	8.0E-51	4503632	NT	Homo sapiens glycine amidohydrolase (L-arginine:glycine amidohydrolase) (GATM) mRNA
4530	17265	28868	8.43	8.0E-51	AA610842.1	EST_HUMAN	np28a09.s1 NCJ CGAP Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gbX12871_maf1
7552	20222	33326	2.24	8.0E-51	11439587	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
9384	21939		1.13	8.0E-51	AU138590.1	EST_HUMAN	Homo sapiens PDZ-73 protein (PDZ-73NY-GO-38), mRNA
11812	20222	33325	2.02	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73NY-GO-38), mRNA
3015	15781	28430	0.9	7.0E-51	AW274720.1	EST_HUMAN	xt34a03.x1 NCJ CGAP Kd11 Homo sapiens cDNA clone IMAGE:2695564 3' similar to TR-08Z340
3278	16037	29887	1.45	7.0E-51	AW880219.1	EST_HUMAN	QV4NT0028-200400-180-405 NT0028 Homo sapiens cDNA
4148	18888	29519	1.37	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2228_r1 434 (synonym: hlec3) Homo sapiens cDNA clone DKFZp434B2228 5'
4148	18888	29520	1.37	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2228_r1 434 (synonym: hlec3) Homo sapiens cDNA clone DKFZp434B2228 5'
4318	17067	29881	2.71	7.0E-51	AW285603.1	EST_HUMAN	UHH-BWG-ep-b-05-0-UJ1 NCJ CGAP Sub3 Homo sapiens cDNA clone IMAGE:2726817 3'
11088	24281	37003	1.34	7.0E-51	AF161446.1	NT	Homo sapiens HSPC331 mRNA, partial cds
1972	14708	27426	4.95	6.0E-51	7657268	NT	Homo sapiens KIAA0928 protein Max2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA
3486	16222	28878	14.73	6.0E-51		NT	Homo sapiens KIAA0928 protein Max2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA
5901	18888	31834	1.59	6.0E-51	X01788.1	NT	Human haapoglobin related (Hpr) gene exon 3
5912	18888	31848	9.85	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
5912	18888	31849	9.85	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6863	19580	32815	1.02	6.0E-51	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70SD, polypeptide 1 (RPS6KB1) mRNA
6722	18598	32884	0.97	6.0E-51	11410761	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56880), mRNA
6808	17949	30540	2.2	6.0E-51	11426695	NT	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
9035	21725	34878	0.88	6.0E-51	11426525	NT	Homo sapiens hypothetical protein FLJ11043 (FLJ11043), mRNA
9035	21725	34879	0.88	6.0E-51	11426525	NT	Homo sapiens hypothetical protein FLJ11043 (FLJ11043), mRNA
9832	22235	35419	2.18	6.0E-51	7691936	NT	Homo sapiens B9 protein (B9), mRNA

Page 305 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8902	22314	35511	0.87	6.0E-51	U50083.1	NT	Human ankyrin (ANK1) gene, exon 2
11221	23884	37169	1.51	6.0E-51	11526298	NT	Human sapiens interleukin 17 receptor (IL17R), mRNA
11515	24115	37425	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (P2B), alpha isoform (PPP2R5A) mRNA
11515	24115	37426	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (P2B), alpha isoform (PPP2R5A) mRNA
774	13546	28207	11.81	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
786	13557	28219	1.86	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
970	15557	28400	0.95	6.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1803	14349	27038	0.89	5.0E-51	5031880	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2801	15315	28052	8.67	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 165
3925	18675	28316	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3925	18675	28317	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11249	23911	37203	4.18	5.0E-51	5903136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
1163	13008	28571	3.65	3.0E-51	AI587348.1	EST_HUMAN	h61c09.x1 NCI CGAP_Part1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326
4292	17031	28659	1.97	3.0E-51	AL159142.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); Novel human gene mapping to chromosome 22
7479	20152	33248	3	3.0E-51	RI18914.1	EST_HUMAN	yae7008.r1 Scores Infant brain 1N18 Homo sapiens cDNA clone IMAGE:53283 5' similar to gb:M14123_cds4
8738	21430		4.96	3.0E-51	M28063.1	NT	RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR7.3 LTR7 repetitive element;
8906	25430		0.47	3.0E-51	AW583777.1	EST_HUMAN	Human hIRNP C3 protein mRNA
357	13155	25799	2.01	2.0E-51	4507798	NT	h04008.y1 Human Pancreatic islets Homo sapiens cDNA 5' syndrome (UBES3A) mRNA
1893	14427	27124	5.16	2.0E-51	AA233352.1	EST_HUMAN	z09005.r1 Striatum NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:964880 5' similar to TR:G233228 G233228 RTVL-H PROTEIN, contains LTR7.3 LTR7 repetitive element;
3716	10469	28107	1.57	2.0E-51	AI62415.1	EST_HUMAN	h27g03.x1 NCI CGAP_Jct11 Homo sapiens cDNA clone IMAGE:2131732.3
4458	17194	29820	0.78	2.0E-51	AW137828.1	EST_HUMAN	UI-H811-e4-4-02-0-J1st NCI CGAP_S403 Homo sapiens cDNA clone IMAGE:2718851 3'
5352	18155	30837	0.7	2.0E-51	AI732851.1	EST_HUMAN	d33409.x5 NCI CGAP_K605 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NM1_MOUSE
5352	18155	30838	0.7	2.0E-51	AI732851.1	EST_HUMAN	P35436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
5925	18709	31663	3.86	2.0E-51	BE782018.1	EST_HUMAN	P35436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
7209	18984		0.61	2.0E-51	AF219627.1	NT	60147046FT NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3873953 5'
							Homo sapiens diacylglycerol kinase iota (DGKI) gene, exon 23

Page 306 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7357	20038	33116	1.06	2.0E-51	7852349	NT	Homo sapiens cell recognition molecule Casp2 (KIA00868), mRNA
8589	21291	34432	1.72	2.0E-51	BE001894.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956813 5'
8589	21291	34433	1.72	2.0E-51	BE001894.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956813 5'
8632	21623	34786	0.06	2.0E-51	11037064	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9412	22060	35281	1.45	2.0E-51	AB017078.1	EST_HUMAN	h7407.x1 NCI CGAP_GC08 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN
9503	22158	35338	5.08	2.0E-51	BE166980.1	EST_HUMAN	Q14288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR;
9519	22172	35355	0.6	2.0E-51	AB007628.1	NT	MR3-HT0487-150200-119-g01 HT0487 Homo sapiens cDNA
10332	22979	36189	1.77	2.0E-51	AB082474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10370	23018	36232	2.67	2.0E-51	AA376599.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5'
11288	18155	30837	8.52	2.0E-51	AT32851.1	EST_HUMAN	EST191288 Synovial sarcoma Homo sapiens cDNA 5' end
11298	18155	30838	8.52	2.0E-51	AT32851.1	EST_HUMAN	c33409.x5 NCI CGAP_K45 Homo sapiens cDNA clone IMAGE:1325009 3' similar to SW:NME1_MOUSE
12823	24870	31017	2.1	2.0E-51	11418159	NT	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
112	12934	29571	6.74	1.0E-51	4503528	NT	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
1479	14228	2032	20.32	1.0E-51	AV742248.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL1), mRNA
4859	17864	30294	1.52	1.0E-51	BE770039.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
5305	18110	30768	4.1	1.0E-51	118662.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA clone CBFBC12 5'
7549	20219	33322	0.94	1.0E-51	AB572532.1	EST_HUMAN	601484695F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3988346 5'
7803	20498	33819	0.81	1.0E-51	BF434396.1	EST_HUMAN	b120581 Testis 1 Homo sapiens cDNA clone b12058
11783	25434		2	1.0E-51	AV760590.1	EST_HUMAN	193902.x1 Soares_NIH-MF-U_51 Homo sapiens cDNA clone IMAGE:2089106 3'
10587	23282	36520	1.39	0.0E-52	RP1638.1	EST_HUMAN	769802.x1 NCI CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87892 P87892 PROTEASE;
10587	23282	36521	1.39	0.0E-52	RP1638.1	EST_HUMAN	AV760590 MDS Homo sapiens cDNA clone MDS08802 5'
12301	24728		5.36	0.0E-52	AA77621.1	EST_HUMAN	AV10944.F1 Soares fetal liver spleen 1N1L3 Homo sapiens cDNA clone IMAGE:196567 5' similar to
148	12963	25605	9.99	0.0E-52	AA720574.1	EST_HUMAN	SP:YGAF_ECOLI_P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION;
1482	14228	28815	1.85	0.0E-52	X84900.1	NT	Y10104.F1 Soares fetal liver spleen 1N1L3 Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION;
							265607.x1 Soares fetal liver spleen 1N1L3 Homo sapiens cDNA clone IMAGE:448500 3' similar to
							contains THR.L3 THR repetitive element;
							rw21g02.x1 NCI CGAP_GC080 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.L3
							THR repetitive element;
							H. sapiens mRNA for lemnih-5, alpha3b chain

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1650	14396	27095	3.13	8.0E-52	11998028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
1650	14396	27096	3.13	8.0E-52	11998028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14396	27095	6.6	8.0E-52	11998028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14398	27098	6.6	8.0E-52	11998028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7417	20094	33176	0.67	8.0E-52	11416593	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB), mRNA
7417	20094	33179	0.67	8.0E-52	11416593	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB), mRNA
8911	21802	34745	2.04	7.0E-52	W56471.1	EST_HUMAN	z559a06.r1 Source: parathyroid tumor, NBHPPA Homo sapiens cDNA clone IMAGE:328578 5' similar to contains Alu repetitive element
1164	13918		0.76	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0537-271294-046-807 BT0537 Homo sapiens cDNA
1089	14433	27128	4.27	6.0E-52	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PST and hypothetical protein genes, complete cds; and S171 gene, partial cds
5641	18436	31340	0.86	6.0E-52	A1208704.1	EST_HUMAN	Q94410.4.1 Source: testis, NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11170	23837	37119	1.84	6.0E-52	BE048172.1	EST_HUMAN	tz46104.y1 NC1 CGAP_Bm82 Homo sapiens cDNA clone IMAGE:2281671 5' similar to SW:PG8M_MOUSE_Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR ;
9292	21959	35182	0.6	5.0E-52	11437998	NT	Homo sapiens FSHD region gene 1 (FRG1), mRNA
1723	14486	27165	1.32	4.0E-52	4501822	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
1780	14521	27226	1.02	4.0E-52	4758943	NT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
3906	16658	29287	0.99	4.0E-52	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5204	18012	30653	1.33	4.0E-52	4506132	NT	Homo sapiens phosphatidylethanolamine phosphatase-associated protein 2 (PRP-SAP2) mRNA
5204	18012	30634	1.33	4.0E-52	4506132	NT	Homo sapiens phosphatidylethanolamine phosphatase-associated protein 2 (PRP-SAP2) mRNA
7938	20633	33760	1.74	4.0E-52	BE022032.1	EST_HUMAN	607140887F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916936 5'
8432	21125	34293	5.46	4.0E-52	11417035	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12143	24631		5.11	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12827	24630		5.23	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P20M, complete cds
4071	16815		10.57	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10075 (FLJ10075), mRNA
549	13332	25962	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
549	13332	25963	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2503	15220	27983	2.04	2.0E-52	BE207576.1	EST_HUMAN	b68807.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb:Y16469 M.musculus mRNA for Zfp-1 zinc finger protein (MOUSE);
2740	15446		6.03	2.0E-52	BF677862.1	EST_HUMAN	602084710T1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248881 5'
4020	17648	30280	2.13	2.0E-52	AL137188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
4652	17678	30287	1.29	2.0E-52	A1141802.1	EST_HUMAN	Novel human gene mapping to chromosome 20, similar to membrane transporters
4652	17678	30288	1.29	2.0E-52	A1141802.1	EST_HUMAN	Novel human gene mapping to chromosome 20, similar to membrane transporters
5617	18413	31326	4.11	2.0E-52	AW848041.1	EST_HUMAN	IL3-CT0214-231269-053-E12 CT0214 Homo sapiens cDNA
6274	18047	32024	1.96	2.0E-52	11141868	NT	Homo sapiens Interleukin 21 receptor (IL21R), mRNA
6613	19376	32390	0.89	2.0E-52	AB026004.1	NT	Homo sapiens gene for KIAA1081 protein, partial cds
6943	19543	32571	1.17	2.0E-52	A1792146.1	EST_HUMAN	os45612.y5 NCI_CGAP_B2 Homo sapiens cDNA clone IMAGE:1608311 5'
8551	21243		9.03	2.0E-52	AF147880.1	NT	Mus musculus beta-tubulin mRNA, complete cds
8834	21526	34672	0.81	2.0E-52	AA778765.1	EST_HUMAN	Z14505.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453272 3'
8379	21654		0.86	2.0E-52	4756789	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10015	22053	35879	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
10016	22863	35880	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
11185	23832	37111	3.15	2.0E-52	AB31482.1	EST_HUMAN	W4604.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
11185	23832	37112	3.15	2.0E-52	AB31482.1	EST_HUMAN	W4604.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
11178	23845	37131	3.09	2.0E-52	AV716377.1	EST_HUMAN	AV716377 DOB Homo sapiens cDNA clone DOBAIE03 5'
11325	24016		1.72	2.0E-52	W70280.1	EST_HUMAN	z148g12.r1 Soares_fetal_liver_1NFLS_S1 Homo sapiens cDNA clone IMAGE:344038 5'
11618	24215		2.78	2.0E-52	11417990	NT	Homo sapiens LIM domain domain 2 (LIMK2), mRNA
11981	25406	30601	24.36	2.0E-52	AW236297.1	EST_HUMAN	x172607.x1 NCI_CGAP_GML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element; contains element LTR2 repetitive element;
12350	24758		4.49	2.0E-52	AB008965.1	EST_HUMAN	W677605.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2380640 3' similar to TRQ16859 Q16859 CARBOXYLTERASE 1;
520	13304	25637	1.98	1.0E-52	AA634445.1	EST_HUMAN	z175h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743579 3'
1350	14098	26773	37.84	1.0E-52	4504028	NT	Homo sapiens glutamate-aminoligase (glutamine synthase) (GLUL) mRNA
2537	15252		0.9	1.0E-52	4502238	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
3055	15821	28465	2.67	1.0E-52	S61070.1	NT	poliovirus transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 690 nt]
5250	18056	30684	4.35	1.0E-52	M29426.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
6300	18073	32059	2.51	1.0E-52	U38964.1	NT	Human PMS2 related (HPMSR2) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7930	20012	35080	5.31	1.0E-52	X07292.1	NT	Human aldolase C gene for fructose-1,6-bisphosphatase aldolase
8364	21057		1.2	1.0E-52	AL16327.2	NT	Homo sapiens chromosome 21 segment HS210327
9087	21178	34040	0.75	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10478	23122		1.03	1.0E-52	AW020370.1	EST_HUMAN	af0805.y1 Morton Feed Coches Homo sapiens cDNA clone IMAGE:248145 5'
10486	23132		1.39	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS210302
10665	23356	36508	1.61	1.0E-52	U48206.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (PTPCAAX1) mRNA, complete cds
10740	23427		2.08	1.0E-52	11428321	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA
3771	16523	29191	1.05	9.0E-53	4506064	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4359	17097	28732	1.98	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12188	24860		3.18	7.0E-53	BF238465.1	EST_HUMAN	601904771F1 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:4132793 5'
12000	25285		4.92	7.0E-53	AI421782.1	EST_HUMAN	944907.x1 NCL CGAP Brn23 Homo sapiens cDNA clone IMAGE:2099077 3' similar to contains THR.11 THR repetitive element
5086	17803	30422	1.02	8.0E-53	BE285719.1	EST_HUMAN	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3630946 5'
4078	16822	28448	2.28	8.0E-53	4798643	NT	Homo sapiens heterogues nuclear ribonucleoprotein C (G1/C2) (HNRPC) mRNA
12236	24888		1.58	5.0E-53	AW813563.1	EST_HUMAN	RC3-ST0187-151089-011-g10 ST0187 Homo sapiens cDNA
48	12877	25502	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS210385
48	12877	25503	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS210385
4771	17503	30125	1.03	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1), mRNA
8316	21983		0.86	4.0E-53	AI813037.1	EST_HUMAN	Y0804.x1 NCL CGAP U3 Homo sapiens cDNA clone IMAGE:2278327 3'
8656	22308		0.67	4.0E-53	F13380.1	EST_HUMAN	HSC3D041 normalized infant brain cDNA Homo sapiens cDNA clone c-3404
11175	23842	37126	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810809F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11175	23842	37127	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810809F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2086	15376	28114	1.77	3.0E-53	AB020666.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 12 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4549	17284	28914	0.74	3.0E-53	AW803563.1	EST_HUMAN	L2-UM0081-240300-055-D03 UM0081 Homo sapiens cDNA
5338	18142	30803	0.7	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5338	18336	31243	0.82	3.0E-53	11526287	NT	Homo sapiens MIL1 protein (MIL1), mRNA
6101	18879	31848	0.85	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
8908	19090	32740	1.04	3.0E-53	Y10388.3	NT	H. sapiens gdf gene
8908	19090	32741	1.04	3.0E-53	Y10388.3	NT	H. sapiens gdf gene
8203	20907	34034	12.52	3.0E-53	S72043.1	NT	GIF-growth inhibitory factor (human, brain, Genomic, 2015 nt)
8758	21450	34597	0.85	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8955	21046		8.41	3.0E-53	8901853	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
11828	24410	37746	2.78	3.0E-53	8923598	NT	Homo sapiens hypothetical protein FLJ20844 (FLJ20844), mRNA

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
445	13231		5.82	2.0E-53	AA366558.1	EST_HUMAN	EST177525 Pancreas tumor III Homo sapiens cDNA 5' and
2327	15052	27768	2.79	2.0E-53	U78027.1	NT	Homo sapiens Brin's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P3 (F1P3) genes, complete cds
2538	15283		8.73	2.0E-53	4502310	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP6E), mRNA
2729	15436	28172	1.46	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2729	15436	28173	1.46	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3239	19001	28951	3.72	2.0E-53	AF083822.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4036	16781	29411	2.83	2.0E-53	M61873.1	NT	Human Kruppel-related DNA-binding protein (TF34) gene, partial cds
5340	18143	30804	2.97	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0395-170800-001-g03 GT0395 Homo sapiens cDNA
5340	18143	30805	2.97	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0395-170800-001-g03 GT0395 Homo sapiens cDNA
7770	20469	33560	1	2.0E-53	AW976598.1	EST_HUMAN	EST138707 MAGE resequenced, MAGN Homo sapiens cDNA
9308	21975		3.82	2.0E-53	AW245676.1	EST_HUMAN	2822666, aprtmo NIH_MGC 7 Homo sapiens cDNA clone IMAGE2822666 5'
1428	14175	26860	1.51	1.0E-53	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
3404	16162	28813	1.08	1.0E-53	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTLA gene region, section 1/2 (DLEC1, ORCTLA genes, complete cds)
6563	18356	32370	1.52	1.0E-53	BF394201.1	EST_HUMAN	CM4-NN1029-150860-543-e02 NN1029 Homo sapiens cDNA
7147	19834	32903	0.98	1.0E-53	BE012071.1	EST_HUMAN	RG3-BN1059-270400-031-001 BN1059 Homo sapiens cDNA
7836	20531	33658	0.54	1.0E-53	AA246072.1	EST_HUMAN	IGF71, aeq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
8987	21677	34826	6.91	1.0E-53	X76936.1	NT	H sapiens mRNA for htrRNase protein A1
11833	24417	37757	1.41	1.0E-53	X08411.1	NT	H sapiens mRNA for myosin-IE
11833	24417	37758	1.41	1.0E-53	X08411.1	NT	H sapiens mRNA for myosin-IE
11895	24507	37295	2.28	1.0E-53	AW245422.1	EST_HUMAN	2822943, aprtmo NIH_MGC 7 Homo sapiens cDNA clone IMAGE2822943 3'
5219	25063	30951	6.16	0.0E-54	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
202	13016	26555	2.4	8.0E-54	BE398785.1	EST_HUMAN	801272853F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE3014031 5'
1827	14066	27278	1.77	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
5845	18633	31598	26.87	8.0E-54	6005700	NT	Homo sapiens AIP-binding cassette, sub-family A (ABC1), member 8 (ABC48), mRNA
375	13200	25845	1.27	7.0E-54	AA612537.1	EST_HUMAN	at79c12.61 Source, beta_NIT Homo sapiens cDNA clone 1377048 3' similar to contains MER30.13 MER30 repetitive element;
1822	14561	27273	1.56	7.0E-54	Y16645.1	NT	Homo sapiens mRNA for monocyte chemoattractant protein-2
2202	14930	27687	0.38	7.0E-54	N27177.1	EST_HUMAN	Y068412.61 Source, placenta, 8kb/ovoids, 2NH-F8040W Homo sapiens cDNA clone IMAGE257399 3' similar to contains LTR7 B8 LTR7 repetitive element;

Page 311 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal:	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10028	22878	35882	2.08	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC83182), mRNA
11047	23717	35886	1.74	7.0E-54	86223688	NT	Homo sapiens golgin-like protein (GLP), mRNA
11047	23717	35887	1.74	7.0E-54	86223688	NT	Homo sapiens golgin-like protein (GLP), mRNA
11261	23823		4.35	7.0E-54	AI160189.1	EST_HUMAN	gb87g03.x1 Scores, fold: 1.000119W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 ORF repetitive element:
11811	24400	37736	1.49	7.0E-54	AF111167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11811	24400	37737	1.49	7.0E-54	AF111167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
22	12850	26485	1.41	8.0E-54	AB003918.1	NT	Homo sapiens DNA for MICB, exon 4, 5 and partial cds
376	13201	25848	6.83	6.0E-54	8622148	NT	Homo sapiens hypothetical protein DKFZP434M035 (DKFZP434M035), mRNA
376	13201	25847	6.83	6.0E-54	8622148	NT	Homo sapiens hypothetical protein DKFZP434M035 (DKFZP434M035), mRNA
3271	16038	26888	0.77	8.0E-54	8622148	NT	Homo sapiens hypothetical protein DKFZP434M035 (DKFZP434M035), mRNA
3686	16734	26988	1.91	6.0E-54	4502872	NT	Homo sapiens chloride channel 6 (CLCN6), mRNA
4428	17165	29784	0.86	6.0E-54	AV764748.1	EST_HUMAN	AV754748 TP Homo sapiens cDNA clone TPGAAC10 5'
4792	17523	30145	1.78	8.0E-54	4508808	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA), mRNA
4819	17550		1.16	6.0E-54	Y09848.1	NT	H. sapiens shc pseudogene, p88 isoform
11432	23198	38430	1.51	6.0E-54	AW813667.1	EST_HUMAN	RC3-ST0167-151089-01T-08 ST0167 Homo sapiens cDNA
2146	14876	27611	3.78	5.0E-54	F51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
178	12860		13.34	4.0E-54	AF110103.1	NT	Tupai belangeri beta-actin mRNA, partial cds
636	13703	26388	67.5	4.0E-54	AA308704.1	EST_HUMAN	EST177096 Jurkat T-cells VI Homo sapiens cDNA 5' and similar to glyceraldehyde-3-phosphate dehydrogenase
1768	14538	27248	3.22	4.0E-54	D38821.1	NT	Human mRNA for KIAA0077 gene, partial cds
1768	14538	27248	3.22	4.0E-54	D38821.1	NT	Human mRNA for KIAA0077 gene, partial cds
3109	16962		1	4.0E-54	AB38086.1	EST_HUMAN	w20d0111 Scores, NFI, T, GBC ST1 Homo sapiens cDNA clone IMAGE:2329286 3' similar to TR-O2711
92	12818	29595	4.47	3.0E-54	AA313487.1	EST_HUMAN	O02711 PRO-OL-DUTPASE POLYPROTEIN;
1965	14312		0.91	3.0E-54	AW515742.1	EST_HUMAN	EST186371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
2574	16288	28025	0.96	3.0E-54	AL110383.1	EST_HUMAN	h887g08.x1 NCI-60 GAP G08 Homo sapiens cDNA clone IMAGE:2816642 3'
2830	15342		1.34	3.0E-54	AB08187.1	EST_HUMAN	DKFZP434E0731.1 T1 434 (synonym: hms3) Homo sapiens cDNA clone DKFZP434E0731 5'
5814	18903	31531	1.74	3.0E-54	4502434	NT	IL-BT180-100389-007 BT189 Homo sapiens cDNA
7288	19071	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
7288	19071	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	ab2208.s1 Scores, parathyroid tumor, NhrHPA Homo sapiens cDNA clone IMAGE:1388270 3'
7288	19071	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	ab2208.s1 Scores, parathyroid tumor, NhrHPA Homo sapiens cDNA clone IMAGE:1388270 3'

Table 4

Single Exon Probe Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10949	23627			1.63	3.0E-54	11434806	NT
11024	23666	36669		4.63	3.0E-54	BF346900.1	EST_HUMAN
11341	24031	37335		3.26	3.0E-54	AA393362.1	EST_HUMAN
12056	24573	31119		2.98	3.0E-54	AW954556.1	EST_HUMAN
12087	23373			2.61	3.0E-54	AW748965.1	EST_HUMAN
827	13406	26040		8.96	2.0E-54	5031900	NT
1344	14092	28767		0.98	2.0E-54	4507104	NT
1539	14286	26972		1.37	2.0E-54	AA655008.1	EST_HUMAN
2541	19255	27995		1.22	2.0E-54	AW163175.1	EST_HUMAN
2808	15320	28062		1.65	2.0E-54	AL163210.2	NT
2898	19603	28311		1.52	2.0E-54	AW057524.1	EST_HUMAN
3311	18071	28721		1.18	2.0E-54	AJ276314.1	NT
3588	18292			3.2	2.0E-54	AA532925.1	EST_HUMAN
4181	19621			2.06	2.0E-54	4502842	NT
4826	17558	30178		1.02	2.0E-54	7706446	NT
5088	18188	30880		1.64	2.0E-54	4759068	NT
5516	18314	31216		1.2	2.0E-54	BE047864.1	EST_HUMAN
5875	18469	31385		5.04	2.0E-54	11428657	NT
5771	18502	31469		13.99	2.0E-54	AB046811.1	NT
5771	18502	31469		13.99	2.0E-54	AB046811.1	NT
6559	18324	32331		0.88	2.0E-54	AF008916.1	NT
6713	19628	32672		0.66	2.0E-54	AB023212.1	NT
6713	19628	32673		0.65	2.0E-54	AB023212.1	NT
7023	19715	32772		8.9	2.0E-54	11428644	NT
9629	22182	33396		4.11	2.0E-54	AB001025.1	NT
9609	22558	33733		0.79	2.0E-54	11429127	NT
10021	22688	35885		1.01	2.0E-54	11416762	NT
10021	22688	35886		1.01	2.0E-54	11416762	NT

Page 313 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10947	19324	32331	1.57	2.0E-54	AF008915.1	NT	Homo sapiens EV15 homolog mRNA, complete cds
11727	24321		2.86	2.0E-54	7857454	NT	Homo sapiens pascallia (zebrafish) homolog 1, containing BRGT domain (PES1), mRNA
4432	17168		1.22	1.0E-54	BF315418.1	EST_HUMAN	60189230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4728335 5'
10153	22801	38018	0.82	1.0E-54	AA412408.1	EST_HUMAN	2170609.r1 Sources, testis NHT Homo sapiens cDNA clone IMAGE:731464 5'
10153	22801	38019	0.82	1.0E-54	AA412408.1	EST_HUMAN	2170609.r1 Sources, testis NHT Homo sapiens cDNA clone IMAGE:731464 5'
12710	24688		2.17	1.0E-54	AU077341.1	EST_HUMAN	AL077341 Sugeno cDNA library Homo sapiens cDNA clone Zv6C980 similar to 5'-end region of Human guanine-glutaryl transpeptidase mRNA, 5' end
10257	22905	38115	0.84	9.0E-55	BE081488.1	EST_HUMAN	QV2-BT06335-180400-143-412 BT06335 Homo sapiens cDNA
1292	14041		1.09	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1295	14044		2.83	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11151	23918		1.67	8.0E-55	AW409714.1	EST_HUMAN	fl02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860307 5'
1059	13817	28479	0.77	7.0E-55	R08346.1	EST_HUMAN	Y28604.r1 Sources fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127698 5' similar to SP-C561_BOVIN P10687 CYTOCHROME :
8703	21395		0.8	7.0E-55	AW103839.1	EST_HUMAN	xd78c02.x1 Sources, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2860322 3' similar to TR:000365
9080	21789	34932	1.28	7.0E-55	AA880581.1	EST_HUMAN	dc28a11.s1 Sources, testis NHT Homo sapiens cDNA clone IMAGE:1407280 3'
9116	21903	34988	2.18	7.0E-55	AU139609.1	EST_HUMAN	AUT39609 PLAGE1 Homo sapiens cDNA clone PLAGE1011578 5'
11171	23838	37120	10.32	7.0E-55	A1661056.1	EST_HUMAN	h22p02.x1 NCI_CGAP_UH Homo sapiens cDNA clone IMAGE:2210249 3'
11171	23838	37121	10.32	7.0E-55	A1661056.1	EST_HUMAN	h22p02.x1 NCI_CGAP_UH Homo sapiens cDNA clone IMAGE:2210249 3'
12882	25303		2.5	7.0E-55	H23390.1	EST_HUMAN	ym57g07.r1 Sources infant brain 1NIB Homo sapiens cDNA clone IMAGE:52444 5'
11498	24098	37412	2.45	6.0E-55	AB040634.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
1783	14505	27205	1.19	5.0E-55	AA704971.1	EST_HUMAN	295509.s1 Sources, fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:462817 3'
1763	14505	27206	1.19	5.0E-55	AA704971.1	EST_HUMAN	295509.s1 Sources, fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:462817 3'
4720	17452	30089	1.81	5.0E-55	AW200021.1	EST_HUMAN	UIH-BIT-afy-08-DU1.s1 NCI_CGAP_SUG3 Homo sapiens cDNA clone IMAGE:2723593 3'
6446	19214	32211	1.65	5.0E-55	4502240	NT	Homo sapiens erythritase E (chondrocytes punctata 1) (ARSE), mRNA
6446	19214	32212	1.65	5.0E-55	4502240	NT	Homo sapiens erythritase E (chondrocytes punctata 1) (ARSE), mRNA
6588	25094	32340	1.34	5.0E-55	4505952	NT	Homo sapiens peroxanase 2 (PON2) mRNA, and translated products
6588	25094	32341	1.34	5.0E-55	4505952	NT	Homo sapiens peroxanase 2 (PON2) mRNA, and translated products
6937	19872	32718	0.83	5.0E-55	7382477	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 5, mRNA
7195	19881	32955	0.7	5.0E-55	11434422	NT	Homo sapiens BCL2-associated ataxogen (BAG1), mRNA
7893	20588	33718	0.72	5.0E-55	11528491	NT	Homo sapiens BCL2-associated ataxogen (BAG1), mRNA
8942	21633	34177	3.63	5.0E-55	4506302	NT	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9218	21888		1.75	5.0E-55	BC064386.1	EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA
9837	22585	35786	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds

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9937	22885	35787	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
10122	22770	35964	2.48	5.0E-55	5453735	NT	Homo sapiens mel (chicken) like 2 (NELL2), mRNA
12137	24029		2.73	5.0E-55	11417972	NT	Homo sapiens pascallio (zebrafish) homolog 1, containing BRC1 domain (PES1), mRNA
667	13434	28075	65.4	4.0E-55	4928673	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA
1421	14109	28933	1.78	4.0E-55	7861713	NT	Homo sapiens predicted osteoblast protein (G33788), mRNA
1421	14160	28954	1.78	4.0E-55	7861713	NT	Homo sapiens predicted osteoblast protein (G33788), mRNA
1504	14250		1.7	4.0E-55	BF081411.1	EST_HUMAN	752b10.X1 Soares, NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.8 L1 repetitive element;
2019	14754	27482	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2019	14754	27483	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2079	14811	27542	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (GDK) (DGKG) mRNA
2079	14811	27543	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (GDK) (DGKG) mRNA
2308	15033	27771	2.29	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2686	15310		1.21	4.0E-55	AJ271735.1	NT	Homo sapiens Xq pseudocentromeric region; segment 12
8242	20836		8.37	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11194	23859		2.3	4.0E-55	W28189.1	EST_HUMAN	45c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12057	24574		3.05	4.0E-55	BF303941.1	EST_HUMAN	601886575F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
11998	24536		1.5	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
12721	24983		1.85	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
368	13164	25807	1.98	2.0E-55	X67147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
538	13321		1.13	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
834	13413	29049	13.79	2.0E-55	4507288	NT	Homo sapiens synovial-binding protein 1 (STXBP1) mRNA, and translated products
4723	17455	30090	2.91	2.0E-55	BE178886.1	EST_HUMAN	CMT-UT0876-150800-357-g03 HT0876 Homo sapiens cDNA
7403	23162	33162	0.76	2.0E-55	AW501988.1	EST_HUMAN	UL-HF-BNO-ska-4-05-0-111 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
8963	21654	34804	0.52	2.0E-55	BF224462.1	EST_HUMAN	ht78908.X1 NCI CGAP_K611 Homo sapiens cDNA clone IMAGE:3134463 3'
8963	21654	34805	0.52	2.0E-55	BF224462.1	EST_HUMAN	ht78908.X1 NCI CGAP_K611 Homo sapiens cDNA clone IMAGE:3134463 3'
9058	21747		6.23	2.0E-55	A002838.1	EST_HUMAN	end05a.11 Streptococcus schou brain 311 Homo sapiens cDNA clone IMAGE:1694185 3' similar to contains THR L2 THR repetitive element;
9140	21828		0.72	2.0E-55	BE007959.1	EST_HUMAN	QV0-BNO1747-280400-213-g08 BNO1747 Homo sapiens cDNA
10370	22560	30798	1.95	2.0E-55	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
95	12921	25558	3.01	1.0E-55	4603080	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
184	12967	26636	8.22	1.0E-55	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabelfact) mRNA, complete cds
1127	13983	26543	3.53	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0803 protein, partial cds

Page 315 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1943	14678	27351	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120110F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 5'
1943	14678	27362	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120110F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 5'
2324	15049		2.48	1.0E-55	58033174	NT	Homo sapiens SMA3 (SMA3), mRNA
2328	15528	27769	1.17	1.0E-55	AF000980.1	NT	Homo sapiens beta-specific T-cell Transcritp Y 1 (TTY4) mRNA, partial cds
2321	15237	27978	9.05	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2559	15273	28009	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0405 protein, partial cds
2556	15273	28010	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0405 protein, partial cds
2617	15328	28071	1.72	1.0E-55	LS4057.1	NT	Homo sapiens CLP mRNA, partial cds
3970	16719	29633	4.28	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4292	17003	29635	1.26	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4982	17416		1.02	1.0E-55	NT77281.1	EST_HUMAN	y44g03.r1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:249020 5'
5410	18209	30617	0.87	1.0E-55	AF119658.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6178	18955	31929	6.82	1.0E-55	AF1193046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6178	18955	31930	6.82	1.0E-55	11433048	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
7888	20583	33713	1.64	1.0E-55	11433984	NT	Homo sapiens disc, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33712	1.64	1.0E-55	11433984	NT	Homo sapiens disc, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7980	20675	33769	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20675	33800	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
10828	23511	36751	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10828	23511	36752	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11425	23192	38423	2.63	1.0E-55	U06060.1	NT	Human infant brain unknown product mRNA, complete cds
11444	23211	38442	1.5	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA C08-HAP-F1 Homo sapiens cDNA clone b4HB3MA-C078-HAP-F81 5' similar to similar to Chinese Hamster DHFR-complified protein mRNA
11569	24168	37482	2.35	1.0E-55	10587821	NT	Homo sapiens DNA-binding protein (LOC558242), mRNA
7265	19649	33028	1.83	1.0E-55	BE378074.1	EST_HUMAN	601231702F1 NIH_MGC_94 Homo sapiens cDNA clone IMAGE:3609562 5'
2737	15444	28182	5.32	7.0E-58	H19024.1	EST_HUMAN	y62g03.r1 Scores adult brain N264FB657 Homo sapiens cDNA clone IMAGE:3609562 5'
7540	20210	33309	1.67	7.0E-58	AW391213.1	EST_HUMAN	RG1-C10252-231086-015-b07 GT0252 Homo sapiens cDNA
7540	20210	33310	1.67	7.0E-58	AW391213.1	EST_HUMAN	RG1-C10252-231086-015-b07 GT0252 Homo sapiens cDNA
1687	14431	27127	1.78	5.0E-58	AW907712.1	EST_HUMAN	RG3-BN0063-170200-011-H01 BN0083 Homo sapiens cDNA
9059	21748	34806	0.86	6.0E-58	AW0715607.1	EST_HUMAN	UHH-810p-sac-s-05-U1.s1 NC1 CGAP Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10286	22934		1.61	5.0E-58	W28189.1	EST_HUMAN	43x5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12220	23396	30610	2	5.0E-58	H55090.1	EST_HUMAN	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_56 5'
26	12854	25469	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
26	12854	25470	8.58	4.0E-56	AF141348.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2173	14902		2.89	4.0E-56	BF207586.1	EST_HUMAN	80189259F1 NIH_MGC 63 Homo sapiens cDNA clone IMAGE:4081561 5'
2712	15419	28157	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2712	15419	28158	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2815	13297	25920	3.49	4.0E-56	AF03528.1	NT	Homo sapiens X-linked epithelial ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2836	15331	28074	1.48	4.0E-56	AF32488.1	EST_HUMAN	w60909.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2305181 3' similar to SW:DCOR_MUSPA
2836	15331	28075	1.48	4.0E-56	AF32488.1	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE
8164	18941	31612	8.01	4.0E-56	AF217508.1	NT	w60909.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2305181 3' similar to SW:DCOR_MUSPA
8164	18941	31613	8.01	4.0E-56	AF217508.1	NT	P27119 ORNITHINE DECARBOXYLASE
10403	23049	36298	2.02	4.0E-56	AF043349.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10841	23523	36764	8.88	4.0E-56	AF043349.1	NT	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
10841	23523	36765	8.88	4.0E-56	AF043349.1	EST_HUMAN	trf65g12.x1 NCI CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2163046 3'
1319	14068	26742	4.17	3.0E-56	AF08066.1	EST_HUMAN	trf65g12.x1 NCI CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2163046 3'
3122	15987	28527	1.54	3.0E-56	AA326828.1	EST_HUMAN	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
3122	15987	28528	1.54	3.0E-56	AA326828.1	EST_HUMAN	EST28890 Cerebellum II Homo sapiens cDNA 5' end
3815	16597		1.61	3.0E-56	AF055098.1	NT	EST28890 Cerebellum II Homo sapiens cDNA 5' end
4365	17069	29728	1.43	3.0E-56	7057042	NT	Homo sapiens MHC class I region
4390	17127	29759	4.27	3.0E-56	AL163268.2	NT	Homo sapiens Down syndrome candidate region 1 (DSOR1), mRNA
4534	17296	23902	2.34	3.0E-56	5902085	NT	Homo sapiens chromosome 21 segment HS21G068
5598	18393	31302	2.12	3.0E-56	4759163	NT	Homo sapiens superfamily 1-like activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
5598	18393	31303	2.12	3.0E-56	4759163	NT	Homo sapiens superfamily 1-like activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
5775	19619	32547	7.03	3.0E-56	11421124	NT	Homo sapiens sparsely-spread, ovov and basal-like domains proteoglycan (heparan) (SPOCK) mRNA
7223	19008	32981	1.15	3.0E-56	4504970	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
7223	19008	32982	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
8715	21407	34550	4.88	3.0E-56	11418704	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
9713	22364	35562	0.85	3.0E-56	D63479.2	NT	Homo sapiens bone morphogenetic protein 6 (BMP6), mRNA
10379	23025	36240	1.38	3.0E-56	AB042558.1	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10842	23333	36571	1.71	3.0E-56	AB042558.1	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11284	23846	37239	6.37	3.0E-56	5902013	NT	Homo sapiens mRNA, similar to rat myosin, complete cds
							Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	23045	37240	0.37	3.0E-56	5602013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11673	24268	37500	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11673	24268	37501	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
12095	24597	31083	1.52	3.0E-56	11434876	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12095	24597	31084	1.52	3.0E-56	11434876	NT	Homo sapiens caveolin 3 (CAV3), mRNA
511	13205		1.7	2.0E-56	AA196618.1	EST_HUMAN	zif269.8.1 Stratagene neuroepithelium (H63723) Homo sapiens cDNA clone IMAGE:645206 3'
716	15560	28141	1.05	2.0E-56	BE004386.1	EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA
716	15560	28142	1.05	2.0E-56	BE004386.1	EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA
2987	15733	28390	1.18	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3523	16270	28334	1.64	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCF-G10 5'
6890	16033	32731	1.47	2.0E-56	5730038	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
959	13724		1.84	1.0E-56	AF190330.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3884	16417	29056	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11x1 NC1 CGAP GC8 Homo sapiens cDNA clone IMAGE:2946452 3'
3884	16417	29057	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11x1 NC1 CGAP GC8 Homo sapiens cDNA clone IMAGE:2946452 3'
4972	17666	30303	0.99	1.0E-56	AB05162.1	EST_HUMAN	QV-BT077-130189-079 BT077 Homo sapiens cDNA
5118	17836	30463	0.97	1.0E-56	6081002	NT	Mus musculus cytoplasmic poly(dI)/dII element binding protein (Cpab), mRNA
6724	18558	32589	0.57	1.0E-56	AW006520.1	EST_HUMAN	MR3-ST0203-180100-208-H02 ST0203 Homo sapiens cDNA
9855	22505		0.59	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
9048	22506		1.71	1.0E-56	AW845887.1	EST_HUMAN	RC2-CT0163-220669-001-E02 CT0163 Homo sapiens cDNA
611	13386	35690	2.32	9.0E-57	AW880865.1	EST_HUMAN	QVQ-OT0033-070300-152-H03 OT0033 Homo sapiens cDNA
4180	19620	29549	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4180	19620	29549	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
11183	23848	37134	2.17	9.0E-57	AF228487.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11183	23848	37135	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11606	24107	37420	1.48	9.0E-57	AB020081.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
260	13098	25736	3.01	8.0E-57	AW810403.1	EST_HUMAN	QV4-ST0234-181168-037-H06 ST0234 Homo sapiens cDNA
864	13633	28303	6.36	8.0E-57	AW284598.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
1809	14549	27264	1.51	8.0E-57	AA468109.1	EST_HUMAN	z61512J1 Source_NHT Homo sapiens cDNA clone IMAGE:757151 5'
3376	16135	28761	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
3376	16135	28762	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4852	17682	30205	1.3	8.0E-57	4557630	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIN4) mRNA
5161	25276	30728	3.29	8.0E-57	11418185	NT	Homo sapiens acylase 2, mitochondrial (ACO2), mRNA
8306	19078	32083	1.85	8.0E-57	AB020705.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6372	18141	32137	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0680 protein, partial cds
6372	18141	32138	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0680 protein, partial cds
7349	20030	33107	0.84	8.0E-57	7882283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7648	20312	33423	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0687 protein, partial cds
7648	20312	33424	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0687 protein, partial cds
11460	17889	30487	3.26	8.0E-57	8623349	NT	Homo sapiens hypothetical protein FLJ20371, mRNA
12450	24828	31028	2.74	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12473	24828	31028	1.09	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12620	25060		2.07	8.0E-57	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2639	15350	28093	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2639	15350	28094	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
3244	16006	28655	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3244	16006	28656	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3265	16027	28677	1.08	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3858	16608	29246	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
3858	16608	29247	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
4398	17135		0.95	7.0E-57	AF020503.1	NT	Homo sapiens FRAS1 common fragile region, diadenosine triphosphate hydrolase (FHT) gene, exon 5
4730	17462	30089	0.95	7.0E-57	U11058.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxK) mRNA, complete cds
12785	25310		2.53	5.0E-57	AJ271735.1	NT	Homo sapiens Xa pseudotubercular region; segment 1/2
3738	18489	28125	1.57	4.0E-57	AB026888.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
786	13558	26220	0.78	3.0E-57	4507708	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBES3A) mRNA
1308	14058		18.24	3.0E-57	AJ260278.1	EST_HUMAN	nc1307.at1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:108937 similar to SW:RS10_HUMAN
2390	15111	27848	2.96	3.0E-57	AA348335.1	EST_HUMAN	P46763.40S RIBOSOMAL PROTEIN S10. ;
							EST154770 Hippocampus II Homo sapiens cDNA 5' end
2707	15414	28151	0.95	3.0E-57	BE076822.1	EST_HUMAN	783810.x1 NCL CGAP_GLI1 Homo sapiens cDNA clone IMAGE:3208443 3' similar to WP:Y47H9C.2
							CE20283 ;
2707	15414	28152	0.95	3.0E-57	BE076822.1	EST_HUMAN	783810.x1 NCL CGAP_GLI1 Homo sapiens cDNA clone IMAGE:3208443 3' similar to WP:Y47H9C.2
3550	16005	28655	1.74	3.0E-57	AF232708.1	NT	Homo sapiens cell-line ta201a chloride ion current inducer protein (Chn) gene, complete cds
3685	18438		62.34	3.0E-57	AW853694.1	EST_HUMAN	RC3-OT0254-110300-027-410 CT0254 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Ht BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
5639	18721	31880	1.24	3.0E-57	11228808	NT	Homo sapiens angiotensin converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6033	18813	31773	3.23	3.0E-57	BE796337.1	EST_HUMAN	601569585F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8044	20738	33871	3.77	3.0E-57	W28130.1	EST_HUMAN	4268 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8070	20764	33892	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8070	20764	33893	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8179	20873	34008	0.7	3.0E-57	11427157	NT	Homo sapiens KIAA0049 gene product (KIAA0049), mRNA
8328	21021	34157	0.73	3.0E-57	J05282.1	NT	Homo sapiens pyrophosphate synthetase mRNA, complete cds
8757	21449	34998	4.17	3.0E-57	AU17669.1	EST_HUMAN	AU17669 HEMBAT Homo sapiens cDNA clone HEMBAT1001910 5'
9149	21880	35047	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9149	21880	35048	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10825	23508	38747	2.85	3.0E-57	AW248374.1	EST_HUMAN	2820473-Sprimo NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12101	25381	30616	6.38	3.0E-57	W23871.1	EST_HUMAN	ZB45611-1T Soares_Fetal Lung_NHL18W Homo sapiens cDNA clone IMAGE:306549 5'
12480	26281		2.32	3.0E-57	AW178575.1	EST_HUMAN	RC04-H10112-080999-001-C08 HT0112 Homo sapiens cDNA
12823	24828	31010	1.48	3.0E-57	AJ003949.1	EST_HUMAN	AJ003949 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MP10-1L1
1487	14234	26919	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1487	14234	26920	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3432	18108		1.24	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3910	16980	29301	0.78	2.0E-57	BE073264.1	EST_HUMAN	MRO-BT0551-090300-103-103 BT0551 Homo sapiens cDNA
4474	17209	29834	6.73	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5582	18379		1.84	2.0E-57	AA016131.1	EST_HUMAN	zab105-1T Soares retina N284HR Homo sapiens cDNA clone IMAGE:306584 5' similar to contains L1,3 L1 repetitive element
5943	18725		33.81	2.0E-57	BF116286.1	EST_HUMAN	7n80P04.x1 NCL_OGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570998 3' similar to contains TAR1.1H
6007	18848	31810	0.96	2.0E-57	11481281	NT	MEM22 repetitive element
8529	21221	34383	1.08	2.0E-57	AF045452.1	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
9746	22397	36902	1.88	2.0E-57	AF067722.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
10528	23171	36368	0.48	2.0E-57	11484330	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
10528	23171	36369	0.49	2.0E-57	11484330	NT	Homo sapiens KIAA1005 protein (KIAA1005), mRNA
11238	23001	37189	2.42	2.0E-57	11424084	NT	Homo sapiens KIAA1005 protein (KIAA1005), mRNA
11238	23001	37190	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
			3.62	1.0E-57	BE043031.1	EST_HUMAN	h332a08.x1 NCL_OGAP_Lu24 Homo sapiens cDNA clone IMAGE:3038062 3' similar to TR:000246 000248
8593	21285		5.08	1.0E-57	AW470791.1	EST_HUMAN	HYPOHETICAL 9.3 KD PROTEIN
12249	24806		5.08	1.0E-57	AW470791.1	EST_HUMAN	h333608.x1 NCL_OGAP_Ki412 Homo sapiens cDNA clone IMAGE:2875498 3' similar to contains THR.b3 THR repetitive element

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5591	18387	31207	0.99	9.0E-58	AA237847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' and
12516	24865	31015	1.55	9.0E-58	BE395061.1	EST_HUMAN	601309469F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
575	13355		1.78	8.0E-58	BE888715.1	EST_HUMAN	601445949F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3850211 5'
639	13418	28055	4.18	8.0E-58	A1798376.1	EST_HUMAN	624607.X1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR-O16475 O16475 UNNAMED HERV-H PROTEIN;
639	13418	28056	4.18	8.0E-58	A1798376.1	EST_HUMAN	624607.X1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR-O16475 O16475 UNNAMED HERV-H PROTEIN;
1849	14587	27301	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1849	14587	27302	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2074	15740		2.32	8.0E-58	7708132	NT	Homo sapiens DHHC1 protein (LOC51804), mRNA
10847	23440		5.87	7.0E-58	8174542	NT	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
10847	23526	35773	3.6	7.0E-58	AW504109.1	EST_HUMAN	U1HF-BNG-ali-g-10-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078687 5'
10847	23526	36774	3.6	7.0E-58	AW504109.1	EST_HUMAN	U1HF-BNG-ali-g-10-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078687 5'
2281	14979	27718	1.02	8.0E-58	BE395061.1	EST_HUMAN	601309469F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2375	15097	27637	3.78	8.0E-58	AU130889.1	EST_HUMAN	AU130889 NT2R23 Homo sapiens cDNA clone NT2R23001263 5'
2002	15868	28316	1.2	8.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) BAYLOR-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
2002	15868	28317	1.2	8.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) BAYLOR-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6078	18857	31824	1.01	6.0E-58	AF108811.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10208	22856	30072	0.79	6.0E-58	11434746	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12347	24754		1.58	6.0E-58	11526201	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
283	13069	25740	3.79	5.0E-58	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
694	13409	26116	5.41	5.0E-58	BE763384.1	EST_HUMAN	RC4-NT0057-100900-010-005 NT0057 Homo sapiens cDNA
1172	13926	26589	2.96	5.0E-58	AW797948.1	EST_HUMAN	CMB-UM0043-240300-127-407 UM0043 Homo sapiens cDNA
1172	13926	26590	2.96	5.0E-58	AW797948.1	EST_HUMAN	CMB-UM0043-240300-127-407 UM0043 Homo sapiens cDNA
1173	13926	26588	2.76	5.0E-58	AW797948.1	EST_HUMAN	CMB-UM0043-240300-127-407 UM0043 Homo sapiens cDNA
1173	13926	26590	2.76	5.0E-58	AW797948.1	EST_HUMAN	CMB-UM0043-240300-127-407 UM0043 Homo sapiens cDNA
3317	15077	28727	4.32	5.0E-58	AA988183.1	EST_HUMAN	689607.X1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1003508 3'
4229	15970	29594	0.92	5.0E-58	A1636745.1	EST_HUMAN	1898407.X1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW-PRO2_ACACA
5641	18338		2.32	5.0E-58	11466232	NT	P19084 PROFILIN II;
6085	18863	31829	0.86	5.0E-58	H23072.1	EST_HUMAN	Homo sapiens placenta-specific 1 (PLACT), mRNA ym51107.r1 Soares infant brain INIB Homo sapiens cDNA clone IMAGE:52071 5'

Page 321 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6301	19074	32080	0.85	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6379	19148	32147	1.61	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6880	19597	32836	0.89	5.0E-58	AF051334.1	NT	Homo sapiens nitrin (NBS) mRNA, complete cds
6980	19597	32836	0.89	5.0E-58	AF051334.1	NT	Homo sapiens nitrin (NBS) mRNA, complete cds
7008	19698	32752	0.73	5.0E-58	4886400	NT	Homo sapiens nitrin (NBS) mRNA, complete cds
7008	20584	33691	7.89	5.0E-58	8922693	NT	Homo sapiens hydroxymethyltransferase 6 synthase (hydroxymethyltransferase 6 synthase) (HMT6) mRNA
8267	20945	34063	0.63	5.0E-58	AB046837.1	NT	Homo sapiens hypothetical protein FLJ10828 (FLJ10828), mRNA
9239	21918	35089	0.88	5.0E-58	6231227	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
9239	21918	35089	0.88	5.0E-58	6231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6P), mRNA
9239	21918	35089	0.88	5.0E-58	6231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6P), mRNA
10023	22671	33687	0.83	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Ppt18 (PRP18), mRNA
10023	22671	33687	0.83	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Ppt18 (PRP18), mRNA
10300	22947	36161	0.83	5.0E-58	AB014451.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
10300	22947	36161	0.83	5.0E-58	AB014451.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
11819	24405	37740	2.89	5.0E-58	11431079	NT	Homo sapiens chimera (chimera), mRNA
12071	25305		1.81	5.0E-58	11528283	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (GEOR1), mRNA
12512	25330		1.5	5.0E-58	11426423	NT	Homo sapiens acyl-CoA:Coenzyme A carboxylase alpha (ACACA), mRNA
12732	25001		2.67	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
364	13182	25804	4.5	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H ⁺ -transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
778	13351	26212	0.88	4.0E-58	4504634	NT	Homo sapiens Interleukin 10 receptor, beta (IL10RB), mRNA
1462	14100	26883	1.09	4.0E-58	4503948	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2037	18349	26091	1.7	4.0E-58	U36261.1	NT	Human beta-prime-actinin (BAM22) gene, exon 3
3318	19079	28729	1.03	4.0E-58	D16470.1	NT	Human mRNA, 3' terminal portion
3723	16478	28113	1.25	4.0E-58	5031060	NT	Homo sapiens EGF-like repeats and discoidin-1-like domains 3 (EDIL3), mRNA
11315	23974	37215	7.06	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
326	13127		2.67	3.0E-58	R17870.1	EST_HUMAN	X10402.1 Scoville infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693.5
1398	14116	28701	2.38	3.0E-58	4758981	NT	Homo sapiens papilla TY (PTY) mRNA
3174	15937	28585	2.78	3.0E-58	BF60848.1	EST_HUMAN	602185790F1 NIH_MGC 45 Homo sapiens cDNA clone IMAGE:4309843.5
3174	15937	28586	2.78	3.0E-58	BF60848.1	EST_HUMAN	602185790F1 NIH_MGC 45 Homo sapiens cDNA clone IMAGE:4309843.5
6167	18044	31915	0.63	3.0E-58	BE095009.1	EST_HUMAN	Q107-BT0702-170400-164-006 BT0702 Homo sapiens cDNA
6362	19122	32114	1.43	3.0E-58	RT07006.1	EST_HUMAN	HSCT17G081 normalized infant brain cDNA Homo sapiens cDNA clone c-1a08
6544	19309	32314	1.4	3.0E-58	AV712077.1	EST_HUMAN	AV712077.1 DCA Homo sapiens cDNA clone DGA2ZG04.5
919	13986	28350	11.9	2.0E-58	AF069824.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAAS2) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1267	14016						bc08607.1 NIH_MGC.7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb-X60361 cDS RIBOSOMAL PROTEIN L8 (HUMAN); gb-X81987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);
6273	25065	30708	10	2.0E-58	BE208532.1	EST_HUMAN	60146961F1 NIH_MGC.70 Homo sapiens cDNA clone IMAGE:3001911 5'
6273	25065	30734	3.4	2.0E-58	BE807186.1	EST_HUMAN	60146961F1 NIH_MGC.70 Homo sapiens cDNA clone IMAGE:3001911 5'
5996	18748	31709	3.4	2.0E-58	BE807186.1	EST_HUMAN	60146961F1 NIH_MGC.70 Homo sapiens cDNA clone IMAGE:3001911 5'
			1.12	2.0E-58	BF513488.1	EST_HUMAN	U14-BW1-ama-g-11-0-U1 at NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071080 3'
6031	18811	31771					am57602.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1538674 3' similar to WP-ZK328.1 CE50065 UBQUITIN CONJUGATING ENZYME, RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6062	18841	31803	1.88	2.0E-58	A124874.1	EST_HUMAN	498106.r1 Scores fetal liver spleen 1NF1S Homo sapiens cDNA clone IMAGE:186379 5'
6828	19489	32511	0.8	2.0E-58	R92567.1	EST_HUMAN	qin84c01.x1 NCI_CGAP_L10 Homo sapiens cDNA clone IMAGE:1865424 3'
7056	19747	32809	1.12	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7056	19747	32810	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10641	23332	36570	21.77	2.0E-58	BF307745.1	EST_HUMAN	601860812F1 NIH_MGC.17 Homo sapiens cDNA clone IMAGE:4731881 5'
10685	23365	36813	2.43	2.0E-58	AW872641.1	EST_HUMAN	hm2508.x1 NCI_CGAP_Thy4 Homo sapiens cDNA clone IMAGE:30713671 3'
705	13480	28128	0.88	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3'end
1046	13805	29404	2.41	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22KD, B22) (NDUFB9), mRNA
1304	14053	29726	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST1392522 IMAGE resequencing, MAGD Homo sapiens cDNA
1304	14053	29727	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST1392522 IMAGE resequencing, MAGD Homo sapiens cDNA
1376	14124	29798	1.97	1.0E-58	AJ236083.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and 8A repeat elements
2805	15510	29251	2.37	1.0E-58	4759190	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2834	14738	27462	1.6	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 66A (GPR66A) mRNA
3526	16282	29638	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3526	16282	29639	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
4913	17641	30256	4.75	1.0E-58	A1141063.1	EST_HUMAN	sc243d01.x1 Scores_NHIFu.S1 Homo sapiens cDNA clone IMAGE:1878128 3'
5761	18643	31465	1.31	1.0E-58	BE081690.1	EST_HUMAN	RC1-BT0254-280100-015-01 BT0254 Homo sapiens cDNA
6764	19508	32633	0.8	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51286), mRNA
8013	20708		0.5	1.0E-58	AW973537.1	EST_HUMAN	EST1385637 IMAGE resequencing, MAGM Homo sapiens cDNA
8080	21460	34609	0.88	1.0E-58	4568314	NT	Homo sapiens myosin (M-protein) 2 (169KD) (MYO2), mRNA
8880	21971	34714	0.91	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
8979	21969	34818	0.88	1.0E-58	AA412397.1	EST_HUMAN	389R05.r1 Scores_bellis_NHT Homo sapiens cDNA clone IMAGE:730487 5'
8979	21969	34819	0.88	1.0E-58	AA412397.1	EST_HUMAN	389R05.r1 Scores_bellis_NHT Homo sapiens cDNA clone IMAGE:730487 5'
10086	22734	35949	1.21	1.0E-58	11432694	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11780	24371		2.11	1.0E-58	X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
11816	24404	37739	1.57	1.0E-58	D81405.1	NT	Human MSR3 gene, exon10
2225	14953	27691	20.49	8.0E-59	4507378	NT	Human TAF11 box binding protein (TBP) mRNA
8080	20774	33004	2.49	8.0E-58	A1781863.1	EST_HUMAN	h650406.x1 NC1_CGAP_K111 Homo sapiens cDNA clone IMAGE:2384171 3'
173	15535		1.74	6.0E-56	BF033327.1	EST_HUMAN	901458531F1 NH1_MGC 98 Homo sapiens cDNA clone IMAGE:3982086 5'
8144	20838	33970	0.61	6.0E-59	A1750970.1	EST_HUMAN	cn0902.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_c090202 random
1748	14490	27189	1.32	5.0E-58	AW157281.1	EST_HUMAN	au93105.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR-075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
1748	14490	27190	1.32	5.0E-58	AW157281.1	EST_HUMAN	au93105.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR-075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
3124	15889	28530	0.98	5.0E-58	A1807484.1	EST_HUMAN	wf48c11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3'
4810	17345	23978	6.55	5.0E-59	X83497.1	NT	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat.
8982	17998	30528	7.5	5.0E-58	AW102304.1	EST_HUMAN	au66c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAT1 repetitive element.;
8705	21397	34544	1.04	5.0E-58	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39Kc) (RPC39), mRNA
9804	22257	35443	1.62	5.0E-58	AV762889.1	EST_HUMAN	AV762889 MDS Homo sapiens cDNA clone MDSEIC12 5'
10923	23508	36745	3.78	5.0E-58	11434908	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
776	13548	26210	1.66	4.0E-58	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
5450	18249	31138	1.03	4.0E-58	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural placophilin-related arm-repeat protein) (CTNND2), mRNA
12203	25238		1.91	4.0E-59	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
9	12938		8.13	3.0E-58	AW658524.1	EST_HUMAN	EST377582 MAGE resequences, MAGE Homo sapiens cDNA
219	13030	25068	4.86	3.0E-59	7662247	NT	Homo sapiens KIAA0980 gene product (KIAA0980), mRNA
1705	14448	27147	8.2	3.0E-59	4505890	NT	Homo sapiens plasminogen activator, tissue (PLAT), mRNA
1705	14448	27148	8.2	3.0E-59	4505890	NT	Homo sapiens plasminogen activator, tissue (PLAT), mRNA
2125	14958	27585	5.59	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2125	14958	27586	5.59	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3126	15891	28634	3.77	3.0E-58	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3126	15891	28635	3.77	3.0E-58	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3805	16557	28189	1.45	3.0E-59	4508044	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2), mRNA
4838	17372	30007	0.98	3.0E-58	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4738	17470	30107	0.92	3.0E-58	4759328	NT	Homo sapiens Testis-specific XK-related protein on Y (XXRY) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4789	17520	30143	1.57	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR1), mRNA
4890	17713		0.97	3.0E-59	M95891.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 2
6126	18304	31872	2.12	3.0E-59	8624074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7259	18943	33020	1.94	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
7832	20527	33963	1.66	3.0E-59	X12558.1	NT	Human mRNA for dbi proto-oncogene
7832	20527	33964	1.16	3.0E-59	X12558.1	NT	Human mRNA for dbi proto-oncogene
9044	22592	35794	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
9044	22592	35795	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12327	24746		0.04	3.0E-59	11417806	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
7893	20357		0.71	2.0E-59	BF37329.1	EST_HUMAN	MR0-FT0144-250700-002-010 F10144 Homo sapiens cDNA
9337	22190		8.32	2.0E-59	AA309774.1	EST_HUMAN	EST180853 Jurkat T-cells V Homo sapiens cDNA 5' end
10425	23071		1.19	2.0E-59	BF395554.1	EST_HUMAN	RC0-NT0035-100700-032-07 NT0030 Homo sapiens cDNA
10734	23421	36953	2.6	2.0E-59	AW410598.1	EST_HUMAN	h07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
10734	23421	36954	2.8	2.0E-59	AW410598.1	EST_HUMAN	h07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
11311	23070	37274	1.31	2.0E-59	H61804.1	EST_HUMAN	y46h09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208673 5' similar to SP-POL_FENV1 P31702 POL. POLYPEPTIDE
12091	24995	31126	2.83	2.0E-59	A1031908.1	EST_HUMAN	wa36c12.x1 NCI_CGAP_K1011 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR-Q88542
12605	25293	30719	4.95	2.0E-59	L11645.1	NT	Q88542 RTVL-H PROTEIN, contains LTR7 b1 LTR7 repetitive element
189	12974		3.03	1.0E-59	BE258411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1529	14276	26954	0.93	1.0E-59	T92522.1	EST_HUMAN	8011176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2412	15133	27870	1.19	1.0E-59	D11458.2	NT	wa35c08.r1 Stratiene lung (8937210) Homo sapiens cDNA clone IMAGE:118769 5' similar to SP-S21348
2412	15133	27871	1.19	1.0E-59	D11458.2	NT	S21348 HYPOTHETICAL PROTEIN 4.1
2823	15335		2.47	1.0E-59	AA748498.1	EST_HUMAN	Homo sapiens Xba mRNA for xenithine dehydrogenase, complete cds
7462	20135	33227	1.08	1.0E-59	AJ130694.1	NT	Homo sapiens Xba mRNA for xenithine dehydrogenase, complete cds
7617	20293	33392	0.97	1.0E-59	BE256814.1	EST_HUMAN	oe56h11.e1 NCI_CGAP_G031 Homo sapiens cDNA clone IMAGE:3352652 5'
9285	22039	35210	0.97	1.0E-59	BE256814.1	EST_HUMAN	001111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352652 5'
9604	22157	35337	0.98	1.0E-59	11419830	NT	001111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352652 5'
9604	22157	35338	0.54	1.0E-59	11428849	NT	Homo sapiens zinc finger protein 276 (ZNF276), mRNA
10760	20135	33227	12.88	1.0E-59	AJ130694.1	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
747	13520	26178	0.85	8.0E-59	AW977845.1	EST_HUMAN	Homo sapiens mRNA for transcription factor

Page 325 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1455	14202	26888	2.65	8.0E-60	4769150	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2169	14898	27632	3.6	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nuclear-specific induction protein) (RTP) mRNA
2169	14898	27633	3.6	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nuclear-specific induction protein) (RTP) mRNA
5892	18677	31623	1.12	8.0E-60	AB023004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6411	19179	32178	1.07	8.0E-60	S83182.1	NT	hyaluronan-binding protein-hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
7506	20264	33372	1.07	8.0E-60	11420841	NT	Homo sapiens phosphatidylcholine transferase 1, choline, beta isoform (PCYT1B), mRNA
7895	20560	33687	2.28	8.0E-60	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
8537	21529	34675	2.6	8.0E-60	11429849	NT	Homo sapiens S-arrestin; retina and pituitary gland (arrestin) (SAG), mRNA
8571	21046	35118	0.96	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9371	21046	35119	0.96	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10473	23119	36348	0.59	8.0E-60	5453897	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10736	23423	36966	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
10736	23423	36967	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
737	13511	26169	3.61	7.0E-60	AF055096.1	NT	Homo sapiens MHC class 1 region
738	13511	26169	17.82	7.0E-60	AF055096.1	NT	Homo sapiens MHC class 1 region
796	13568	26228	0.98	7.0E-60	4504834	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
2124	14855	27894	1.06	7.0E-60	AF077186.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2788	15493	28233	1.53	7.0E-60	AB011183.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4158	16868	28527	2.56	7.0E-60	4505488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
9307	21674	35149	4.02	7.0E-60	H58041.1	EST_HUMAN	Y1204.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTRs repetitive element
11337	24027	97331	2.11	7.0E-60	H58041.1	EST_HUMAN	Y1204.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTRs repetitive element
2177	14906	27639	1.06	6.0E-60	BE964974.2	EST_HUMAN	001638751r1 NIH_MGC 60 Homo sapiens cDNA clone IMAGE:3989008 3'
8336	21029		10.5	6.0E-60	H62468.1	EST_HUMAN	Y178009.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201963 5' similar to contains ORF repetitive element
82	12803	25545	2.28	5.0E-60	A1807917.1	EST_HUMAN	W63207.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
82	12808	25546	2.29	5.0E-60	A1807917.1	EST_HUMAN	W63207.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2972	15738		1.27	4.0E-60	AA396037.1	EST_HUMAN	HE11468 Uterus Homo sapiens cDNA, 5' end similar to similar to retrovirus-related pol
7253	19337	33012	0.89	4.0E-60	BF196068.1	EST_HUMAN	HE1165.x1 NCI_CGAP_KH11 Homo sapiens cDNA, 5' end similar to similar to retrovirus-related pol
8024	21714		0.88	4.0E-60	AL163278.2	NT	Q01085 GTP-RHO BINDING PROTEIN 1
11287	23929	37219	1.28	4.0E-60	11433597	NT	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11267	23920	37220	1.29	4.0E-60	11433597	NT	Homo sapiens vraf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1852	14590	27305	4.44	3.0E-60	BE502811.1	EST_HUMAN	601339.40FT NIH_MGC_44 Homo sapiens cDNA clone IMAGE:360395 5'
1852	14590	27306	4.44	3.0E-60	BE502811.1	EST_HUMAN	601339.40FT NIH_MGC_44 Homo sapiens cDNA clone IMAGE:360395 5'
1852	14600		1.92	3.0E-60	6031190	NT	Homo sapiens profilin (PF1B) mRNA
4424	17180	29780	1.94	3.0E-60	AJ271735.1	NT	Homo sapiens profilin (PF1B) mRNA
5294	18090	30758	0.57	3.0E-60	BF365143.1	EST_HUMAN	GVA-NN1146-25000-423-01 NT11140 Homo sapiens cDNA
5554	18351	31260	2.12	3.0E-60	AW585198.1	EST_HUMAN	RC3-LT10023-200100-012-01 LT10023 Homo sapiens cDNA
6856	17833	30569	1	3.0E-60	A1782814.1	EST_HUMAN	ab00111.6 NCL CGAP_3033 Homo sapiens cDNA clone IMAGE:1634053 5' similar to SW:UDP_MOUSE
8301	20906	34132	4.97	3.0E-60	6174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8301	20906	34133	4.97	3.0E-60	6174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8482	21174	34319	0.51	3.0E-60	AP40235.1	EST_HUMAN	6564003.X1 Soares NIH/MPu_S1 Homo sapiens cDNA clone IMAGE:1600337 3' similar to SW:FORM_MOUSE Q05890 FORMIN
8841	21333	34477	4.32	3.0E-60	6174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9599	22212	35396	0.47	3.0E-60	BF102612.1	EST_HUMAN	601046227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3900990 5'
11162	23820	37107	1.26	3.0E-60	11427120	NT	Homo sapiens CG1-152 protein (LOC57130), mRNA
11162	23820	37108	1.26	3.0E-60	11427120	NT	Homo sapiens CG1-152 protein (LOC57130), mRNA
12686	25297		2.06	3.0E-60	AA485286.1	EST_HUMAN	ab07104.11 Stratiene lung (8537210) Homo sapiens cDNA clone IMAGE:940151 5' similar to contains LTR10.11 LTR10 repetitive element
29	12857	25474	3.03	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1404	14151	29831	7.35	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1715	14458	27155	1.29	2.0E-60	M24603.1	NT	Human bar protein mRNA, 5' end
1724	14467	27166	1.59	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2714	15421	28180	1.96	2.0E-60	AW1978005.1	EST_HUMAN	EST390114 MAGE sequences, MAGE Homo sapiens cDNA
3568	16321	28699	0.69	2.0E-60	4757867	NT	Homo sapiens vraf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3895	16945	29285	0.73	2.0E-60	AF231819.1	NT	Homo sapiens chromosome 21 unknown mRNA
6208	18983	31982	0.86	2.0E-60	A1791982.1	EST_HUMAN	m0112.65 NCL CGAP_C60 Homo sapiens cDNA clone IMAGE:1076465 5' similar to contains THR11 THR repetitive element
6400	18188	32188	1.87	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6915	18378	32383	0.96	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase beta catalytic subunit (REV3) mRNA, complete cds
6750	17919	30683	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
8750	17919	30694	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7010	19702	32757	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' and similar to similar to prothymosin, alpha
7010	19702	32758	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' and similar to similar to prothymosin, alpha
7124	19812	32880	0.59	2.0E-60	AB08124.1	EST_HUMAN	Q62805 GALANIN RECEPTOR;
7632	20202		0.79	2.0E-60	BF512808.1	EST_HUMAN	U1H-BW7-anti-u-02-Q-U1 NCI CGAP_Sut07 Homo sapiens cDNA clone IMAGE:3071210 3'
7904	20599	33729	0.84	2.0E-60	X65597.1	EST_HUMAN	HS15BEST human adult testis Homo sapiens cDNA clone CAM_EST15
8768	21468	34608	3.01	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologous (SDP1b) mRNA, complete cds
9878	22528	35724	2.28	2.0E-60	11991659	NT	Homo sapiens scna domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMADA), mRNA
9878	22528	35725	2.29	2.0E-60	11881658	NT	Homo sapiens scna domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMADA), mRNA
11449	23216	36448	1.53	2.0E-60	11434728	NT	Homo sapiens ribosomal protein S8 kinase, 80kD, polypeptide 6 (RP-S8KAG), mRNA
11809	24398	37732	1.8	2.0E-60	BF530674.1	EST_HUMAN	902071973F1 NCI CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4214683 5'
11809	24398	37733	1.8	2.0E-60	BF530674.1	EST_HUMAN	902071973F1 NCI CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4214683 5'
12364	24707		3.02	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12494	25228		1.93	2.0E-60	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SS-1R3) gene, 5' flanking region and partial cds
12496	24851		2.34	2.0E-60	11418088	NT	Homo sapiens similar to HSPC922 protein (H. sapiens) (LOC635604), mRNA
12510	24902		1.77	2.0E-60	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
509	13293	25925	1.13	1.0E-60	BE178598.1	EST_HUMAN	PM3-HT0605-270200-001-c08 HT0605 Homo sapiens cDNA
3982	16532	28271	1.16	1.0E-60	AU143389.1	EST_HUMAN	AU143389 Y79A11 Homo sapiens cDNA clone Y79A11001854 5'
4901	17628	30246	1.2	1.0E-60	AU163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7848	20543	33671	0.91	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141199-071-H06 BT0311 Homo sapiens cDNA
8653	21345		3.46	1.0E-60	AA244041.1	EST_HUMAN	nc04e12.1 NCI CGAP_P11 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.1 L1 repetitive element;
9681	21373	34517	1.41	1.0E-60	AV754081	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TP-GAED03 5'
1077	13535	28463	2.21	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005683 5'
2678	19395	28126	1.16	8.0E-61	AW000478.1	EST_HUMAN	wd5510.x1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:2500555 3'
2678	19395	28127	1.16	8.0E-61	AW000478.1	EST_HUMAN	wd5510.x1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:2500555 3'
2051	15177		1.53	8.0E-61	X67147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
7768	20491	33914	1.05	8.0E-61	AA583908.1	EST_HUMAN	mt5908.x1 NCI CGAP_Lart1 Homo sapiens cDNA clone IMAGE:1088218 3'
124	12941	25983	1.87	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
124	12941	25984	1.97	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25983	2.38	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25984	2.38	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5034	12841	25583	1.04	7.0E-61	7708670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
5034	12841	25584	1.04	7.0E-61	7708670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
259	13067	25705	2.95	6.0E-61	BE400310.1	EST_HUMAN	601300838F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
793	13565	26228	1.82	6.0E-61	BE400310.1	EST_HUMAN	601300838F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1286	14047	26719	15	6.0E-61	AF118960.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1626	14372	27061	0.97	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350145 5'
1643	14386	27078	2.83	6.0E-61	AA596033.1	EST_HUMAN	m68409.s1 NCL_COAP_Lart Homo sapiens cDNA clone IMAGE:1088897 3'
2123	14854	27593	1.58	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3301	18063	28711	9.37	6.0E-61	AJ130889.1	EST_HUMAN	AJ130889 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
5941	18723	31682	3.37	6.0E-61	S78249.1	NT	Ig-beta/ID28-CD79b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7242	19027	33003	1.82	6.0E-61	U24498.1	NT	Human autocal dominant polycystic kidney disease protein 1 (PKD1) gene
7518	20180	33282	1.67	6.0E-61	AF036737.1	NT	Homo sapiens general transcription factor 2-1 (GTF2) mRNA, complete cds
11474	24073	37384	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
11474	24075	37395	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
12285	13565	26228	1.62	6.0E-61	BE400310.1	EST_HUMAN	601300838F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
350	13149	25789	1.73	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1874	14419	27112	2.22	6.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3032	15758	28444	2.58	5.0E-61	AL163270.2	NT	Homo sapiens chromosome 21 segment HS21C070
3193	15956	28608	3.27	6.0E-61	4502186	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3063	18712	31451	1.78	6.0E-61	AJ220041.1	NT	Homo sapiens 650 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4941	13148	25789	1.07	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5080	17799	30416	3.38	5.0E-61	4502286	NT	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1) mRNA
6726	18517	31438	0.87	4.0E-61	7681637	NT	Homo sapiens DKFZP669B023 protein (DKFZP669B023), mRNA
12068	24582	34151	3.51	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8320	21013	34151	0.99	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cdk4+ stem cells Homo sapiens cDNA clone CBDA0804
8506	21288	34427	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
8506	21288	34428	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
488	13271	28607	1.52	2.0E-61	8922828	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
1100	13942	28607	0.82	2.0E-61	BE108410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1190	13942	28608	0.82	2.0E-61	BE108410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1690	14406	27087	1	2.0E-61	NS30339.1	EST_HUMAN	y653d11.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:246453 3' similar to dbL29444 OOS RIBOSOMAL PROTEIN L39A (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2847	15357		1.04	2.0E-61	N39397.1	EST_HUMAN	y93511.1f Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:270189 5'
6332	19102	32060	0.98	2.0E-61	11426186	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110116KD) (ATP9A1A), mRNA
8013	21804	34748	0.98	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GKCC Homo sapiens cDNA clone GKCEG06 5'
9402	22012		0.98	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0539 protein, partial cds
9822	22473	35676	1.67	2.0E-61	AW500256.1	EST_HUMAN	UHF-BNO-alc-12-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:307877 5'
10150	22708	38014	2.3	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39KD) (RPO39), mRNA
10798	23482		1.81	2.0E-61	11419728	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
756	13528	26188	1.11	1.0E-61	5453626	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA
1851	14580	27304	3.71	1.0E-61	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2193	14922	27868	1.42	1.0E-61	AW827281.1	EST_HUMAN	xt11508.y1 NCL_CGAP_L15 Homo sapiens cDNA clone IMAGE:2693369 5' similar to contains element MSR1 repetitive element;
2839	15607	28257	1.47	1.0E-61	BES386363.1	EST_HUMAN	801273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614667 5'
3308	16128	28798	0.86	1.0E-61	7682319	NT	Homo sapiens KIAA0808 gene product (KIAA0808), mRNA
3715	16468	29106	1.2	1.0E-61	BE174455.1	EST_HUMAN	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA
4407	17144	29173	0.81	1.0E-61	4759240	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4407	17144	29174	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17535	30157	8.11	1.0E-61	AW298181.1	EST_HUMAN	UHH-BWO-ql-b-08-Q.U1 at NCL_CGAP_Sub0 Homo sapiens cDNA clone IMAGE:2732871 3'
4804	17535	30158	8.11	1.0E-61	AW298181.1	EST_HUMAN	UHH-BWO-ql-b-08-Q.U1 at NCL_CGAP_Sub0 Homo sapiens cDNA clone IMAGE:2732871 3'
4805	17632	30247	0.75	1.0E-61	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5309	18134	30772	1.62	1.0E-61	M79423.1	NT	H. sapiens carbonic anhydrase VII (CA VII) gene, exons 4, 5, 6, and 7, and complete cds
5603	18398	31310	0.79	1.0E-61	7682303	NT	Homo sapiens KIAA0785 gene product (KIAA0785), mRNA
5793	18584	31511	1.29	1.0E-61	11418891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
6800	19461	32482	7.11	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (HP40) gene, complete cds
6901	19684	32732	0.67	1.0E-61	4759171	NT	Human SC35-interacting protein 1 (SRRP126), mRNA
7081	19780	32845	1.42	1.0E-61	8622130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7081	19780	32846	1.42	1.0E-61	8622130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8033	20726	33961	3	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8212	20906	34041	3.08	1.0E-61	AF224698.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9182	21852		2.7	1.0E-61	AW969726.1	EST_HUMAN	MRO-BNO070-040400-010-H01 BNO070 Homo sapiens cDNA
9257	21836	35110	7.73	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
9828	22576	35775	5.24	1.0E-61	11428892	NT	Homo sapiens KIAA0871 protein (KIAA0871), mRNA
10531	23226	36462	2.84	1.0E-61	11425578	NT	Homo sapiens actin, alpha 4 (ACTN4), mRNA

Page 330 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10855	23535	36780	1.49	1.0E-61	AB044550.1	NT	Homo sapiens PI0K119 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11006	23678	36835	1.53	1.0E-61	AB007880.1	NT	Homo sapiens mRNA for CSF2, complete cds
12007	25273	30726	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12007	25273	30727	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12059	24959	30988	11.58	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10295	22903	36113	1.45	9.0E-62	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
4514	17249	29886	1.1	8.0E-62	AA830420.1	EST_HUMAN	cd8611.1 NCI CGAP_G0381 Homo sapiens cDNA clone IMAGE:1854725 3' similar to SW:POL_MLVK
1085	13543	29501	1.82	7.0E-62	AV714334.1	EST_HUMAN	P31756 POL POLYPROTEIN 1
3407	16283	29807	0.74	7.0E-62	P17480	SWISSPROT	AV714334 DOB Homo sapiens cDNA clone DCBAMA08 5'
5626	18615	31547	0.84	7.0E-62	11427995	NT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1) (AUTOANTIGEN NOR-60)
11323	24014	37317	7.1	7.0E-62	AI206881.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
2968	15784		1.42	6.0E-62	U09410.1	NT	q05604.x1 Soares, Jessica NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
3379	16136		4.1	6.0E-62	11418255	NT	O15103 HYPOTHETICAL 27.3 KD PROTEIN ;
7525	20196	33269	3.03	6.0E-62	AI762801.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF131 mRNA, partial cds
7525	20196	33290	3.03	6.0E-62	AI762801.1	EST_HUMAN	W04402.x1 NCI CGAP_G111 Homo sapiens cDNA clone IMAGE:2389251 3'
7884	20979		0.72	6.0E-62	AW501124.1	EST_HUMAN	W04402.x1 NCI CGAP_G111 Homo sapiens cDNA clone IMAGE:2389251 3'
8156	20849	33981	1.45	6.0E-62	11431139	NT	U1HF-BF0p-48-09-0-UII NIH_MGC 31 Homo sapiens cDNA clone IMAGE:3072833 5'
9254	21933	35108	3.27	6.0E-62	AW814393.1	EST_HUMAN	Homo sapiens CGL18 protein (LOC351008), mRNA
407	13192	29840	2.8	5.0E-62	AI60628.1	EST_HUMAN	MR3-ST0203-130100-025-409 ST0203 Homo sapiens cDNA
2406	15127	27863	4.25	6.0E-62	AJ271735.1	NT	W051607.x1 NCI CGAP_LJ28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
2406	15127	27864	4.25	6.0E-62	AJ271735.1	NT	Q08379 GOLGIN-96, contains element MER22 repetitive element ;
2968	15312	28048	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2968	15312	28049	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3413	16171	28620	2.82	6.0E-62	4506758	NT	Human xanthine dehydrogenase/cadherine mRNA, complete cds
4293	17032	29860	2.6	5.0E-62	AA431063.1	EST_HUMAN	Human xanthine dehydrogenase/cadherine mRNA, complete cds
9447	21139	34278	0.56	5.0E-62	4506758	NT	Homo sapiens tyrosine receptor 3 (RYR3) mRNA
9417	22065	35267	6.45	5.0E-62	AW410387.1	EST_HUMAN	W07099.x1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:2961616 5'
11231	23894	37180	2.85	5.0E-62	11425574	NT	Homo sapiens muscle specific gene (M6), mRNA
11231	23894	37181	2.85	5.0E-62	11425574	NT	Homo sapiens muscle specific gene (M6), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13591	26258	1.95	4.0E-42	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
820	13591	26259	1.95	4.0E-42	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.96	4.0E-42	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26259	2.98	4.0E-42	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27816	1.79	4.0E-42	A1827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_mai1 HISTONE H2B.2 (HUMAN);
2459	15177	27817	1.79	4.0E-42	A1827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_mai1 HISTONE H2B.2 (HUMAN);
3394	18153		8.34	4.0E-42	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
5833	18622	31555	1.84	4.0E-42	4506878	NT	Homo sapiens edute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6204	18079	31058	1.9	4.0E-42	11420954	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facies related) (USP9X), mRNA
7071	19762	32826	1.84	4.0E-42	11421041	NT	Homo sapiens phosphatidylyl pyrophosphatase 2 (PRPS2), mRNA
7634	20204	33289	2.48	4.0E-42	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7634	20204	33300	2.48	4.0E-42	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8071	20765	33384	1.06	4.0E-42	11429973	NT	Homo sapiens 26S proteasome-associated peptidyl homology (POH1), mRNA
8745	21337	34984	4.97	4.0E-42	AB033089.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
10934	23614	36964	4.45	4.0E-42	Z78768.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA16D3
10934	23614	36965	4.45	4.0E-42	Z78768.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA16D3
11698	24533	37270	2.81	4.0E-42	11418098	NT	H. sapiens putative nuclear protein (HRHFB2122), mRNA
12590	24947	30984	1.34	4.0E-42	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12845	24942	30981	18.72	4.0E-42	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12845	24942	30982	18.72	4.0E-42	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12892	24976	30993	2.72	4.0E-42	11430490	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
72	12899	25535	0.89	3.0E-42	4557704	NT	Homo sapiens neurofilament 2 (bilateral acoustic neuroma) (NF2) mRNA
3041	15807	28452	1.11	3.0E-42	AB040909.1	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
3041	15807	28453	1.11	3.0E-42	AB040909.1	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
3696	16439	29081	5.41	3.0E-42	X62658.1	NT	Human cyclophilin-related processed pseudogene

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8438	21130	34287	5.82	3.0E-02	AF32733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:226903 3' similar to contains THR12
1209	13900	28627	2.36	2.0E-02	AL163284.2	NT	THR repetitive element;
8673	21366	34511	4.89	2.0E-02	BF329011.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8673	21365	34512	4.89	2.0E-02	BF329011.1	EST_HUMAN	RCO-BNO284-300500-031-e05 BNC0284 Homo sapiens cDNA
10072	22720		3.8	2.0E-02	AF224690.1	NT	RCO-BNO284-300500-031-e05 BNC0284 Homo sapiens cDNA
11899	24264		4.61	2.0E-02	BF330076.1	EST_HUMAN	Homo sapiens miRNase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
1021	13781	26443	1.87	1.0E-02	AF248540.1	NT	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1536	14283	28970	11.01	1.0E-02	L78810.1	NT	Homo sapiens interseptin 2 (SH3D1B) mRNA, complete cds
1791	14531	27289	1.04	1.0E-02	AA025207.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
2915	15681	28328	0.99	1.0E-02	AL039044.1	EST_HUMAN	af70a1.1.1 Soares_NIHMPF1_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP-K01H12.1
4317	17056		0.71	1.0E-02	BE169413.1	EST_HUMAN	CE034653
4460	17226	29855	1.57	1.0E-02	8923201	NT	QV0-HT0483-280200-135-h12 HT0483 Homo sapiens cDNA
5071	17790	30405	0.9	1.0E-02	L23503.1	NT	QV0-HT0483-280200-135-h12 HT0483 Homo sapiens cDNA
6196	18972	31948	0.86	1.0E-02	U62111.2	NT	Homo sapiens glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
7034	19726	32782	0.91	1.0E-02	AA400080.1	EST_HUMAN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L10a (RPL10a), Cdc42/Cdc42-like dependent protein kinase 1 (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
7045	19736	32798	2.94	1.0E-02	AA722876.1	EST_HUMAN	ad55c02.s1 Stragene fetal ratella 937202 Homo sapiens cDNA clone IMAGE:839008 3'
7045	19736	32797	2.94	1.0E-02	AA722876.1	EST_HUMAN	z98f10.s1 Soares_fetal_heart_NH119W Homo sapiens cDNA clone IMAGE:409771 3'
8655	21647	34797	0.5	1.0E-02	AA260050.1	EST_HUMAN	z98f10.s1 Soares_fetal_heart_NH119W Homo sapiens cDNA clone IMAGE:409771 3'
8656	21647	34797	2.13	1.0E-02	7662289	NT	z98f10.s1 Soares_fetal_heart_NH119W Homo sapiens cDNA clone IMAGE:409771 3'
8656	21647	34798	2.13	1.0E-02	7662289	NT	z98f10.s1 Soares_fetal_heart_NH119W Homo sapiens cDNA clone IMAGE:409771 3'
8699	21659	34839	2.02	1.0E-02	X15533.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8699	21659	34839	2.02	1.0E-02	X15533.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8457	22007	35177	3.54	1.0E-02	AA468170.1	EST_HUMAN	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
11339	24029	37333	2.01	1.0E-02	Z78998.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
11899	24450	37762	1.62	1.0E-02	11424056	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
12474	24638		2.23	1.0E-02	11418323	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
12673	24666	30690	2.96	1.0E-02	11430460	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
329	13130	25765	2.56	9.0E-03	AW816406.1	EST_HUMAN	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
2346	15068		1.53	9.0E-03	C18189.1	EST_HUMAN	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4020	16706	29395	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4020	16766	29396	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5164	17895	37768	3.05	9.0E-63	11418185	NT	Homo sapiens acylase 2, mitochondrial (AC02), mRNA
5378	18179	30868	1.03	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for PAB kinase
7082	19772	32837	3.86	9.0E-63	11426985	NT	Homo sapiens nucleoporin 88KD (NUP88), mRNA
7724	20387	33501	0.91	9.0E-63	4895544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8224	20916	34055	1.38	9.0E-63	11421100	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA
10816	23496	36736	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10816	23496	36737	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2943	15086	27803	1.32	8.0E-63	4557734	NT	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2373	15085	27834	2.06	8.0E-63	6031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3454	16210	28861	3.02	8.0E-63	AF108346.1	NT	Gallus gallus Dacth2 protein (Dacth2) mRNA, complete cds
3454	16210	28862	3.02	8.0E-63	AF108346.1	NT	Gallus gallus Dacth2 protein (Dacth2) mRNA, complete cds
4234	16975	29600	3.31	8.0E-63	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
908	13875		2.09	7.0E-63	AB72137.1	EST_HUMAN	hm55g11.x1 NCL CGAP U02 Homo sapiens cDNA clone IMAGE:2439008 3'
5255	18061		48.05	6.0E-63	AA420803.1	EST_HUMAN	rib3102.r1 NCL CGAP P1 Homo sapiens cDNA clone IMAGE:746947 similar to gb:Y00381 60S RIBOSOMAL PROTEIN (HUMAN);
8773	21465	34612	1.87	5.0E-63	11528464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3315	16075	28726	0.84	4.0E-63	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
3788	16540	29174	1.16	4.0E-63	AB014807.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
3788	16540	29175	1.18	4.0E-63	AB014807.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32115	3.84	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-009 BT0595 Homo sapiens cDNA
6353	19123	32116	3.84	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-009 BT0595 Homo sapiens cDNA
11077	23747	37021	2.3	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B1-abn-e-02-Q.U.1 NCL CGAP Sub3 Homo sapiens cDNA
11077	23747	37022	2.3	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B1-abn-e-02-Q.U.1 NCL CGAP Sub3 Homo sapiens cDNA
11846	24430	37771	4.32	4.0E-63	AA362834.1	EST_HUMAN	EST72007 Ovary II Homo sapiens cDNA 5' end similar to zinc finger protein family
1928	14664	27377	2.82	3.0E-63	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2782	15487	28225	2.26	3.0E-63	J00310.1	NT	Human Met-RNA-1 gene 1
2824	13967	29836	11.81	3.0E-63	60055683	NT	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
6382	19151	32150	32.78	3.0E-63	11545810	NT	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC383628), mRNA
9005	22258	35444	1.15	3.0E-63	BE276158.1	EST_HUMAN	601485666F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3888263 5'
9005	22258	35445	1.15	3.0E-63	BE276158.1	EST_HUMAN	601485666F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3888263 5'
186	12669	25636	1.09	2.0E-63	U07804.1	NT	Human DNA topoisomerase I mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
193	13006	25647	1.88	2.0E-43	4885228	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
485	13270		2.34	2.0E-43	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.9kD) (GLCLC) mRNA
807	13578	26244	5.57	2.0E-43	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1559	14308	26984	1.43	2.0E-43	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1559	14308	26985	1.43	2.0E-43	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1780	14502	27203	1.1	2.0E-43	BE410739.1	EST HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE3688103.5
3154	15917	28553	3.44	2.0E-43	4502169	NT	Homo sapiens amyloid beta (A4) precursor protein (probable neurin-II, Alzheimer disease) (APP), mRNA
3279	16040	28690	2.02	2.0E-43	AF108716.1	NT	Homo sapiens chromosome 3 subtelomeric region
3885	16635	29274	3.74	2.0E-43	L38891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4813	17544	30169	1	2.0E-43	AF111187.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5059	17818	30436	0.96	2.0E-43	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (GPCT), mRNA
5181	25002	30505	1.25	2.0E-43	11419420	NT	Homo sapiens similar to ecdysiolide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC03214), mRNA
5784	18585	31512	2.96	2.0E-43	BF373541.1	EST HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
5704	18585	31613	2.96	2.0E-43	BF373541.1	EST HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6083	18871	31837	0.84	2.0E-43	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6083	18871	31838	0.84	2.0E-43	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
							Human gamma T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV6S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV6S2A2P1, TCRBV7S2A1N4T, TCRBV13S9/13S-
6602	19365	32379	1.67	2.0E-43	U69059.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32425	0.88	2.0E-43	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32426	0.88	2.0E-43	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6675	19456	32477	1.45	2.0E-43	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56634), mRNA
6675	19456	32478	1.45	2.0E-43	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56634), mRNA
7078	20342	33454	0.87	2.0E-43	AB048844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
							Homo sapiens similar to some domain, Immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC03232), mRNA
7713	20377	33490	0.56	2.0E-43	11421514	NT	Homo sapiens chromosome 21 segment HS21C310
8431	21124	34202	3.86	2.0E-43	AL168210.2	NT	Homo sapiens chromosome 3B (KIF3B), mRNA
8952	21643	34791	1.35	2.0E-43	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
8952	21643	34792	1.35	2.0E-43	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9639	22490	35691	1.12	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10647	23538	36577	0.43	2.0E-63	N78945.1	EST_HUMAN	2B1806.6.1 Soares, fetal Jung, NHL 19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:U1206.6 40S RIBOSOMAL PROTEIN S4 (HUMAN);
10672	23563	36804	2.96	2.0E-63	AF069810.1	NT	Homo sapiens neuron III-alpha gene, partial cds
10672	23563	36805	2.96	2.0E-63	AF069810.1	NT	Homo sapiens neuron III-alpha gene, partial cds
12098	25177	30807	6.67	2.0E-63	11418185	NT	Homo sapiens acylase 2, mitochondrial (ACO2), mRNA
1502	14248	26834	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-2cd11
1502	14248	26835	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-2cd11
4308	17047	29672	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-2cd11
4308	17047	29673	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-2cd11
5298	18074	30703	0.8	1.0E-63	AL163217.1	NT	Homo sapiens Xci pseudautosomal region; segment 2/2
5683	18476	31394	1.4	1.0E-63	AW582266.1	EST_HUMAN	QY0-ST0215-060100-083-b09 ST0215 Homo sapiens cDNA
6298	19071	32055	0.68	1.0E-63	AW451950.1	EST_HUMAN	U1H-B13-41H-02-0-UI.1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6298	19071	32056	0.68	1.0E-63	AW451950.1	EST_HUMAN	U1H-B13-41H-02-0-UI.1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8371	21064		2.68	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12737	25288		4.04	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
7766	20462	33588	4.36	9.0E-64	AL478186.1	EST_HUMAN	trf5067.x1 NCL CGAP_KdH1 Homo sapiens cDNA clone IMAGE:2161526 3'
1024	13784		6.16	8.0E-64	BE280796.1	EST_HUMAN	001155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
8049	18529	31792	3.88	8.0E-64	BE885765.1	EST_HUMAN	00150898F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910336 5'
11918	24478		7.34	8.0E-64	11418177	NT	Homo sapiens Rtn GTPase activating protein 1 (RANGAP1), mRNA
11970	24518		1.6	8.0E-64	TR0651.1	EST_HUMAN	001311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3933204 5'
3520	16270		1.13	7.0E-64	BE394321.1	EST_HUMAN	001311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3933204 5'
4983	17417	30052	2.73	7.0E-64	4507460	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4983	17417	30053	2.73	7.0E-64	4507460	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
9633	22581	35779	3.43	7.0E-64	Y07848.1	NT	Homo sapiens EWS, gcr22, m22 and bcr22 genes
1716	14459	27156	1.63	6.0E-64	AI651862.1	EST_HUMAN	w51e07.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2306220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1716	14459	27157	1.63	6.0E-64	AI651862.1	EST_HUMAN	w51e07.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2306220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
3120	15985	28524	4.36	6.0E-64	AW028445.1	EST_HUMAN	wf13e03.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2629436 3'
3120	15985	28525	4.36	6.0E-64	AW028445.1	EST_HUMAN	wf13e03.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2629436 3'
5534	18332	31237	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31238	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31239	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31240	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31241	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31242	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31243	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31244	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31245	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31246	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31247	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31248	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31249	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31250	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31251	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31252	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31253	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31254	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31255	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31256	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31257	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31258	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31259	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31260	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31261	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31262	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31263	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31264	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31265	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31266	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31267	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31268	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31269	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31270	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31271	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31272	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31273	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31274	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31275	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31276	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31277	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31278	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31279	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31280	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31281	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31282	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31283	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31284	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31285	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31286	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31287	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31288	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31289	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31290	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31291	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31292	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31293	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31294	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31295	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31296	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31297	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31298	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31299	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31300	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31301	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31302	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31303	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31304	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31305	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31306	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31307	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31308	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31309	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31310	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31311	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31312	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31313	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31314	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31315	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31316	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31317	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31318	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31319	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31320	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31321	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31322	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31323	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31324	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31325	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31326	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31327	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31328	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31329	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31330	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31331	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31332	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31333	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31334	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31335	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5564	18361	31269	1.26	6.0E-64	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; actin receptor interacting protein 1 (KIAA0705), mRNA
5739	18351	31453	0.82	6.0E-64	11422189	NT	Homo sapiens caldinin receptor (CALCR), mRNA
5739	18351	31453	0.82	6.0E-64	11422189	NT	Homo sapiens caldinin receptor (CALCR), mRNA
7136	18823	32880	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7136	18823	32880	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9228	21905	35077	6.76	6.0E-64	11420555	NT	Homo sapiens acyl-CoA synthetase (LGS5602), mRNA
8408	22058	35240	2.09	6.0E-64	AF274783.1	NT	Homo sapiens progressive ankylosis-like protein (ANK), complete cds
8618	22271	35488	2.78	6.0E-64	AF274783.1	NT	hKc [human, brain, mRNA, 2716 nt]
10669	23360	36900	8.01	6.0E-64	11420187	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10669	23360	36900	8.01	6.0E-64	11420187	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10941	15885	28524	1.84	6.0E-64	AW028445.1	EST_HUMAN	w13c03.x1 NCL_OGAP_Bn23 Homo sapiens cDNA clone IMAGE:2529436 3'
10941	15885	28524	1.84	6.0E-64	AW028445.1	EST_HUMAN	w13c03.x1 NCL_OGAP_Bn23 Homo sapiens cDNA clone IMAGE:2529436 3'
12115	24608	31089	4.97	6.0E-64	11528198	NT	Homo sapiens intercalin 10 receptor, beta (IL10RB), mRNA
801	13573	26235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
801	13573	26235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1315	14064	26738	1.84	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1401	14148	26827	1.3	5.0E-64	L40833.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1401	14148	26827	1.3	5.0E-64	L40833.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1706	14446	27149	1.37	5.0E-64	U86358.1	NT	Human (Gymer) protein homolog mRNA, complete cds
2829	14210	26897	4.85	5.0E-64	7682203	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2829	14210	26898	4.85	5.0E-64	7682203	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3940	16960	29328	6.71	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor CRE3 (CRE3) mRNA, partial cds
4085	19828	29455	1.05	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
7716	20360	32493	0.58	4.0E-64	BE794807.1	EST_HUMAN	RC3-ST0197-12020-015-403 ST0197 Homo sapiens cDNA
10715	23404	39845	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-12020-015-403 ST0197 Homo sapiens cDNA
10715	23404	39845	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-12020-015-403 ST0197 Homo sapiens cDNA
2195	14624	27688	5.41	3.0E-64	L18895.1	EST_HUMAN	I18895 Human placenta cDNA (I18895) Homo sapiens cDNA
3249	16011	28682	0.86	3.0E-64	BE794381.1	EST_HUMAN	RC3-ST0197-12020-015-403 ST0197 Homo sapiens cDNA
3436	15192	29841	2.22	3.0E-64	AV711714.1	EST_HUMAN	I18895 Human placenta cDNA (I18895) Homo sapiens cDNA
3436	15192	29841	2.22	3.0E-64	AV711714.1	EST_HUMAN	I18895 Human placenta cDNA (I18895) Homo sapiens cDNA
5990	16771	31784	1.21	3.0E-64	Z28273.1	NT	H sapiens lacrim 1 gene for L-type calcium channel, exon 28
6401	19170	32169	3.34	3.0E-64	BF370000.1	EST_HUMAN	RC3-FN0019-290800-011-0311 FN0019 Homo sapiens cDNA
6365	21058	34198	1.93	3.0E-64	AF246953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8365	21058	34100	1.93	3.0E-64	AF248653.1	NT	Homo sapiens gold matrix protein GM130 (GOLGA2) mRNA, complete cds
8383	21088	34220	3.09	3.0E-64	BE206821.1	EST_HUMAN	b672h12.y1 NIH_MGC.12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gbL08086 DNAJ
8393	21096	34221	3.80	3.0E-64	BE206821.1	EST_HUMAN	b672h12.y1 NIH_MGC.12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gbL08086 DNAJ
9327	21094	35105	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN)
9327	21094	35106	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN)
9414	22082	35283	0.8	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9414	22082	35284	0.8	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
11691	24286	37608	1.8	3.0E-64	AL163227.2	NT	EST339493 IMAGE sequences, MAGO Homo sapiens cDNA
1098	13824	28484	1.64	2.0E-64	AA009640.1	EST_HUMAN	EST339493 IMAGE sequences, MAGO Homo sapiens cDNA
1377	14125	28789	1.54	2.0E-64	4757701	NT	Homo sapiens chromosome 21 segment HS21C027
							af09408.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
							Homo sapiens aIF4E-like cap-binding protein (4EHP) mRNA
							w087501.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contig element L1 repetitive element
2528	15244		1.82	2.0E-64	AI927030.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
2833	15248	27987	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2833	15248	27988	2.05	2.0E-64	AL163246.2	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
3137	15901	28549	1.42	2.0E-64	4504088	NT	EST370215 IMAGE sequences, MAGO Homo sapiens cDNA
3767	16519	29157	0.78	2.0E-64	AW988145.1	EST_HUMAN	EST370215 IMAGE sequences, MAGO Homo sapiens cDNA
3767	16519	29158	0.78	2.0E-64	AW988145.1	EST_HUMAN	EST370215 IMAGE sequences, MAGO Homo sapiens cDNA
5916	18701	31655	2.78	2.0E-64	AI124387.1	EST_HUMAN	AI124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6148	18625	31865	1.47	2.0E-64	AF113708.1	NT	Homo sapiens endoplasmic reticulum protein 4 (ANIG4) mRNA, partial cds
6304	19163	32184	5.21	2.0E-64	BF68837.1	EST_HUMAN	602123474F1 NIH_MGC.56 Homo sapiens cDNA clone IMAGE:4280385 5'
6497	18283	32284	1.16	2.0E-64	AI078387.1	EST_HUMAN	cc29603.x1 Soares_testis_NB2HF9_Jw Homo sapiens cDNA clone IMAGE:1076717 3'
6801	18384	32378	4.54	2.0E-64	MT7165.1	NT	Homo sapiens dopamine receptor D5 pseudogene 1, partial cds
7707	20371	33484	0.7	2.0E-64	11431054	NT	Homo sapiens atad2 2-binding protein 1 (A2BP1), mRNA
7732	20385	33510	0.65	2.0E-64	AW606785.1	EST_HUMAN	QV1-HT0413-010200-058-H12 HT0413 Homo sapiens cDNA
8597	21259	34395	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
8597	21259	34396	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9038	21728	34892	0.56	2.0E-64	11423508	NT	Homo sapiens hypothetical protein SBB167 (LOC57116), mRNA
9130	21818	34894	0.87	2.0E-64	AI132570.1	EST_HUMAN	AI132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
9878	22529	35726	0.59	2.0E-64	T06397.1	EST_HUMAN	EST042866 Fetal brain, Stratiogene (cd#38206) Homo sapiens cDNA clone HFBDS88
9878	22529	35727	0.59	2.0E-64	T06397.1	EST_HUMAN	EST042866 Fetal brain, Stratiogene (cd#38206) Homo sapiens cDNA clone HFBDS88
10662	23333	36592	3.72	2.0E-64	BF628114.1	EST_HUMAN	602042892F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180556 5'

Page 338 of 536
Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	OFF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10881	23656	36909	5.97	2.0E-04	A1922811.1	EST_HUMAN	w81b03.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2452211 3'
10881	23656	36910	5.97	2.0E-04	A1922811.1	EST_HUMAN	w81b03.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2452211 3'
11198	23663	37149	1.78	2.0E-04	AW084773.1	EST_HUMAN	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA
12039	24562	31114	1.65	2.0E-04	8597387	NT	Homo sapiens perlecan (Drosophila) homolog 3 (PER3), mRNA
12468	24834		4.85	2.0E-04	H55162.1	EST_HUMAN	CHFR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_192 5'
251	13060	25698	2.94	1.0E-04	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1172	14514	27214	10.45	1.0E-04	A1929419.1	EST_HUMAN	au60001.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gbl:21669_cds1 PROTHYMOSIN ALPHA (HUMAN) contains element MSRT1 repetitive element ;
3010	15776	28426	0.79	1.0E-04	4507334	NT	Homo sapiens synapobelin 1 (SYNJ1), mRNA
3601	16257	28912	5.74	1.0E-04	AF106779.1	NT	Homo sapiens transcription factor (GHM enhancer 3, JM11 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds, and L-type calcium channel a2)
3572	16327	28974	1.27	1.0E-04	AF226327.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3572	16327	28976	1.27	1.0E-04	AF226327.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3881	16631	29270	0.79	1.0E-04	8022829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
9984	22812	35818	1.07	1.0E-04	AA042976.1	EST_HUMAN	z63108.s1 Soares pregnant uterus_NHPU Homo sapiens cDNA clone IMAGE:496687 3'
12012	24545		1.81	1.0E-04	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2274	15000	27738	1.53	9.0E-05	X98211.1	NT	H.sapiens DNA for endogenous retroviral like element
2274	15000	27739	1.53	9.0E-05	X98211.1	NT	H.sapiens DNA for endogenous retroviral like element
11623	24123		10.43	9.0E-05	BF330676.1	EST_HUMAN	QV4-B10257-081189-017-003 BT0257 Homo sapiens cDNA
11493	24094	37405	10.87	8.0E-05	A1929244.1	EST_HUMAN	au58107.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW-RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21 ;
10056	22703	35921	2.01	7.0E-05	BE081653.1	EST_HUMAN	QV2-B10635-240400-162-002 BT0635 Homo sapiens cDNA
11807	24397	37371	1.27	7.0E-05	Z21378.1	EST_HUMAN	HSAAEA00 TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
1034	13784	28454	3.99	8.0E-05	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBB2C08 5'
1915	14852		4.73	6.0E-05	AA500029.1	EST_HUMAN	198610.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:966379 similar to gb:K03002 60S
6475	18242	32242	0.62	8.0E-05	AA503892.1	EST_HUMAN	RIBOSOMAL PROTEIN L32 (HUMAN);
				8.0E-05	AA503892.1	EST_HUMAN	1937507.s1 NCI_CGAP_P16 Homo sapiens cDNA clone IMAGE:964517
8645	21337	34481	2.3	6.0E-05	AW063262.1	EST_HUMAN	xc07608.x1 NCI_CGAP_Cox21 Homo sapiens cDNA clone IMAGE:2583548 3' similar to TR-Q63306 Q63306
9609	21600	34742	3.48	6.0E-05	AA427878.1	EST_HUMAN	LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFs ; contains L1 b2.L1 repetitive element ;
9609	21600	34743	3.48	6.0E-05	AA427878.1	EST_HUMAN	z633006.s1 Soares fetal_fetus_NB21F8_gw Homo sapiens cDNA clone IMAGE:773747 3'
8973	21693	34814	0.81	6.0E-05	A1089314.1	EST_HUMAN	z633006.s1 Soares fetal_fetus_NB21F8_gw Homo sapiens cDNA clone IMAGE:773747 3'
				6.0E-05	A1089314.1	EST_HUMAN	qf18105.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8973	21983	34815	0.81	8.0E-05	AI085314.1	EST_HUMAN	qf1805.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
10783	23466	36707	3.82	6.0E-05	BE567816.1	EST_HUMAN	507340485F1 NIH_MGC_33 Homo sapiens cDNA clone IMAGE:3682877 5'
10988	23644	36937	1.52	6.0E-05	BC340325.1	EST_HUMAN	602037721F1 NCI CGAP_Bm54 Homo sapiens cDNA clone IMAGE:4185677 5'
11480	24081	37392	1.88	6.0E-05	AL103210.2	NT	Homo sapiens chromosome 21 segment HS210010
1331	14080	26754	1.6	5.0E-05	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1331	14080	26755	1.6	5.0E-05	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2151	14981	27615	1.0	5.0E-05	AB033708.1	NT	Homo sapiens IPAD-coxym0 mRNA for peptidylarginine deiminase type 1, complete cds
3250	18012	28983	1.6	5.0E-05	4507848	NT	Homo sapiens ubiquitin specific protease 13 (ubiquitin-specific protease 13) (USP-13) mRNA
3250	18012	28984	1.6	5.0E-05	4507848	NT	Homo sapiens ubiquitin specific protease 13 (ubiquitin-specific protease 13) (USP-13) mRNA
10304	23011	36226	1.01	5.0E-05	AF006668.1	NT	Multiple sclerosis associated retrovirus polyprotein (p67) mRNA, partial cds
188	13001	25842	2.02	4.0E-05	AL120419.1	EST_HUMAN	DKFZp761G108.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
728	13502	26156	1.37	4.0E-05	AI266468.1	EST_HUMAN	qim46e01.x1 Soares_placenta_8dchweeks_2N6HP8a9W Homo sapiens cDNA clone IMAGE:1891800 3'
728	13502	26157	1.37	4.0E-05	AI266468.1	EST_HUMAN	qim46e01.x1 Soares_placenta_8dchweeks_2N6HP8a9W Homo sapiens cDNA clone IMAGE:1891800 3'
1056	13614	28475	1.38	4.0E-05	4526735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1468	14216	28903	11.08	4.0E-05	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2336	15090	27796	0.91	4.0E-05	BE221469.1	EST_HUMAN	hu25604.x1 NCI CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
2336	15090	27797	0.91	4.0E-05	BE221469.1	EST_HUMAN	hu25604.x1 NCI CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
3830	16980	29321	1.08	4.0E-05	AW063185.1	EST_HUMAN	RC2-BN0033-160200-073-a03 BN0033 Homo sapiens cDNA
5124	17942	30459	1.03	4.0E-05	9055293	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
6124	17942	30460	1.03	4.0E-05	9055293	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
6083	18942	31804	4.6	4.0E-05	AB033063.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
9083	18942	31805	4.6	4.0E-05	AB033063.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6083	18976	32723	0.95	4.0E-05	AY005372.1	NT	Homo sapiens cysylated binding protein-related protein 3 (CRP3) mRNA, complete cds
7017	19709	32765	0.97	4.0E-05	M19879.1	NT	Human clathrin 27 gene, exons 10 and 11, and L1 and Alu repeats
7119	19807	32873	2.52	4.0E-05	11545780	NT	Homo sapiens hypothetical protein FLJ22067 (FLJ22067), mRNA
7448	20124	33215	0.97	4.0E-05	U40372.1	NT	Homo sapiens hypophthalmin protein FLJ22067 (FLJ22067), mRNA
7448	20124	33216	0.97	4.0E-05	U40372.1	NT	Human 3'5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33559	1.86	4.0E-05	5463765	NT	Human 3'5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33559	1.86	4.0E-05	5463765	NT	Homo sapiens nei (chicken)-like 2 (NELL2), mRNA
5044	21734	34688	0.93	4.0E-05	11429127	NT	Homo sapiens nei (chicken)-like 2 (NELL2), mRNA
10480	23126		2.04	4.0E-05	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10874	23554	39801	1.97	4.0E-65	AV738784.1	EST_HUMAN	AV738784 CB Homo sapiens cDNA clone CBCC9E05 5'
11041	23712	39892	3.68	4.0E-65	AF119846.1	NT	Homo sapiens PR01474 mRNA, complete cds
12310	13814	29475	1.46	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1210	15522		3.8	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1651	14297	20894	0.91	3.0E-65	4504628	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1816	14556	27271	0.93	3.0E-65	A1000692.1	EST_HUMAN	cc23003.s1 Soares_bests_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3271	15032	29693	0.75	3.0E-65	4504650	NT	MSK1 repetitive element 1
3709	19462	29101	0.90	3.0E-65	A1000692.1	EST_HUMAN	cc23003.s1 Soares_bests_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
4802	17337	29966	1.91	3.0E-65	6912385	NT	MSK1 repetitive element 1
9699	22817	39520	1.44	3.0E-65	BE787968.1	EST_HUMAN	Homo sapiens rab5 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
11363	23174	39402	11.12	3.0E-65	AA430008.1	EST_HUMAN	001470988F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3882405 5'
3399	16157	29809	5.75	2.0E-65	BF690294.1	EST_HUMAN	z665a00.r1 Soares_bests_NHT Homo sapiens cDNA clone IMAGE:781042 5'
6442	16210		2.46	2.0E-65	BE263373.1	EST_HUMAN	602165052F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295998 5'
7032	19724	32780	32.07	2.0E-65	BF576922.1	EST_HUMAN	001190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3634741 5'
8744	21436	34582	1.06	2.0E-65	AK024463.1	NT	602134396F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4299285 5'
8744	21436	34583	1.06	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
10552	23248	36485	2	2.0E-65	11410247	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
11999	24615		3.65	2.0E-65	AA307904.1	EST_HUMAN	EST178755 Cdon oncogene (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous
12431	25159		2.2	2.0E-65	BF246086.1	EST_HUMAN	retrovirus
89	12815		1.59	1.0E-65	BF125544.1	EST_HUMAN	001854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
528	13310	29943	1.44	1.0E-65	7657495	NT	001763468F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
2033	14708	27498	1.29	1.0E-65	AB040046.1	EST_HUMAN	Homo sapiens putative Rab5 GDP/GTP exchange factor homologous (RABEX6), mRNA
3395	16124	28781	0.81	1.0E-65	BE466981.1	EST_HUMAN	h224a00.r1 NCJ_COAP_G08 Homo sapiens cDNA clone IMAGE:3208888 3'
3980	16728	29363	2.47	1.0E-65	4504082	NT	Homo sapiens dyx19c4 4 (GPC4) mRNA
4183	16823	29551	2.01	1.0E-65	AW028340.1	EST_HUMAN	Homo sapiens dyx19c4 4 (GPC4) mRNA
4183	16823	29552	2.01	1.0E-65	AW028340.1	EST_HUMAN	w080306.r1 NCJ_COAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33977	2.04	1.0E-65	AW620481.1	EST_HUMAN	w080306.r1 NCJ_COAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33978	2.04	1.0E-65	AW620481.1	EST_HUMAN	QV2-ST0298-140200-042-412 ST0298 Homo sapiens cDNA

Single Exon Probes Expresses

341/536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4332	17071	29700	1.15	6.0E-06	A1924653.1	EST_HUMAN	wn57N07.x1 NCI_CGAP_LUT19 Homo sapiens cDNA clone IMAGE:2449587 3' similar to WP.F15G9.4A
8333	21020		0.48	6.0E-06	BE178563.1	EST_HUMAN	CE18595;
11108	23178	37052	3.14	6.0E-06	X89181.1	NT	PM2-HTD0604.030300-001-508 HTD0604 Homo sapiens cDNA
1346	14094	26769	1.45	5.0E-06	BE064410.1	EST_HUMAN	H.sapiens mRNA for ribosomal protein L31
6046	17705	30382	0.74	5.0E-06	BE89844.1	EST_HUMAN	RC4-BT0311-141198-011-H08 BT0311 Homo sapiens cDNA
6046	17705	30383	0.74	5.0E-06	BE88844.1	EST_HUMAN	801081562F1 NH1_MGC_9 Homo sapiens cDNA clone IMAGE:3961791 5'
9194	21864	35028	16.11	5.0E-06	11420557	NT	601081562F1 NH1_MGC_9 Homo sapiens cDNA clone IMAGE:3961791 5'
773	13545	26208	0.98	4.0E-06	8670815	NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
1729	14471	27170	1.14	4.0E-06	AW897798.1	EST_HUMAN	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
2278	15004	27744	1.83	4.0E-06	X89211.1	NT	RC1-NN0083-100500-022-402 NN0083 Homo sapiens cDNA
2477	15195		3.02	4.0E-06	AJ223384.1	NT	H.sapiens DNA for endogenous retroviral like element
4733	17465		10.88	4.0E-06	8635487	NT	Homo sapiens gamma-line DNA upstream of Jkappa locus
5463	18282	31153	3.73	4.0E-06	11428643	NT	Human endogenous retrovirus, complete genome
6957	18452	31366	1.15	4.0E-06	AW939119.1	EST_HUMAN	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate
6767	17926	30551	4.83	4.0E-06	AW968473.1	EST_HUMAN	cyclohydrolase (MTHFD2), mRNA
7031	19723	32779	7.93	4.0E-06	U781683.1	NT	QV1-DT0068-110200-067-g10 DT0068 Homo sapiens cDNA
7529	18282	31153	0.72	4.0E-06	11428643	NT	EST377546 IMAGE resequences, MAGI Homo sapiens cDNA
7976	20671	33794	6.63	4.0E-06	11421638	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor (cAMP-GEF) mRNA, complete cds
8034	20729	33982	0.73	4.0E-06	X57147.1	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate
10556	23252	36489	1.97	4.0E-06	BF507483.1	EST_HUMAN	cyclohydrolase (MTHFD2), mRNA
11351	24041	37344	1.28	4.0E-06	AB023215.1	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
1407	14164	28835	10.96	3.0E-06	4502088	NT	Human endogenous retrovirus pHE.1 (ERV9)
1407	14154	26930	10.86	3.0E-06	4502088	NT	UI-H-BW1-emb-10-Q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
1975	14711	27429	1.16	3.0E-06	N55323.1	EST_HUMAN	Homo sapiens mRNA for KIAA0988 protein, partial cds
1976	14711	27430	1.16	3.0E-06	N55323.1	EST_HUMAN	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5
							(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5
							(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Y27g12.1f1 Soares multiple sclerosis 2NIN-HSP Homo sapiens cDNA clone IMAGE:284326 5' similar to
							SW:H2B1_TIGCA P35068 HISTONE H2B.1:H2B.2 [2] PIR:BS58612;
							Y27g12.1f1 Soares multiple sclerosis 2NIN-HSP Homo sapiens cDNA clone IMAGE:284326 5' similar to
							SW:H2B1_TIGCA P35068 HISTONE H2B.1:H2B.2 [2] PIR:BS58612;

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1975	14711	27431	1.10	3.0E-06	N55323.1	EST_HUMAN	Y27121.1 Soares, multiple sclerosis, 2NH-HMP Homo sapiens cDNA clone IMAGE:284328 5' similar to SW:H2B1, TICCA P35068 HISTONE H2B.1/H2B.2 [2] PR:856812;
2711	15418	28158	3.54	3.0E-06	11141830	NT	Homo sapiens TGF-beta-induced transcription factor 2 (TGIF2), mRNA
3115	15980	28520	0.3	3.0E-06	7062223	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
5390	18180	30870	1.14	3.0E-06	AB020989.1	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
5490	18289	31186	0.73	3.0E-06	M13676.1	NT	Homo sapiens protein kinase C beta-II type (PRKC81) mRNA, complete cds
5696	18479	31397	1.92	3.0E-06	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5996	18479	31398	1.82	3.0E-06	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
9425	22103	35275	0.82	3.0E-06	AK024453.1	NT	Homo sapiens mRNA for FL00045 protein, partial cds
9819	22272	35459	0.82	3.0E-06	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9873	22821	35826	0.8	3.0E-06	7019480	NT	Homo sapiens proboscoidin beta 1 (PODH-beta1), mRNA
10420	23066	36287	0.97	3.0E-06	AF155859.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein E (MOBPE) mRNA, complete cds
11484	24086	37406	6.18	3.0E-06	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B96), alpha isoform (PPP2R3A) mRNA
11806	24306	37730	1.57	3.0E-06	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E), gene, exons 7-49, and partial cds, alternatively spliced
60	12879	25505	2.15	2.0E-06	7057334	NT	Homo sapiens Mashapen/NIK-related kinase (MINIK), mRNA
60	12879	25506	2.15	2.0E-06	7057334	NT	Homo sapiens Mashapen/NIK-related kinase (MINIK), mRNA
413	12824	25437	1.76	2.0E-06	4908524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCL), mRNA, and translated products
413	12824	25438	1.76	2.0E-06	4908524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCL), mRNA, and translated products
1819	14558	27272	2.05	2.0E-06	AL103301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3510	16266	28920	0.77	2.0E-06	8923280	NT	Homo sapiens hypothetical protein FLJ23509 (FLJ23509), mRNA
3747	16500	29134	0.68	2.0E-06	AL117233.1	NT	Novel human gene mapping to chromosome 1
4044	16789	29417	0.8	2.0E-06	AF103386.1	NT	Homo sapiens sodium/calcium exchanger isoform NaC8 (NCX1) mRNA, complete cds
4607	17342	29873	9.46	2.0E-06	AF133267.2	NT	Homo sapiens ILA-B gene for human leucocyte antigen B
4607	17342	29874	9.48	2.0E-06	AF133267.2	NT	Homo sapiens ILA-B gene for human leucocyte antigen B
5726	18518	31439	1.3	2.0E-06	AW98854.1	EST_HUMAN	EST360630 IMAGE resequences, MAGJ Homo sapiens cDNA
5726	18518	31440	1.3	2.0E-06	AW98854.1	EST_HUMAN	EST360630 IMAGE resequences, MAGJ Homo sapiens cDNA
6746	21438	34585	2.26	2.0E-06	N45480.1	EST_HUMAN	Y69402.1 Soares, multiple sclerosis, 2NH-HMP Homo sapiens cDNA
12320	26370		2.37	2.0E-06		NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1678	14422		1.16	1.0E-06	BE887173.1	EST_HUMAN	80150376T NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3808831 5'
2895	15652	28309	1.36	1.0E-06	AV171817.1	EST_HUMAN	AV171817 DC8 Homo sapiens cDNA clone DC8AD007 5'

Page 344 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	15862	28310	1.36	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DGB Homo sapiens cDNA clone DGBAD007 5'
4352	15862	28309	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DGB Homo sapiens cDNA clone DGBAD007 5'
4352	15862	28310	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DGB Homo sapiens cDNA clone DGBAD007 5'
5287	18102	30761	5.96	1.0E-66	BF873088.1	EST_HUMAN	802152968F1 NIH_MGC 81 Homo sapiens cDNA clone IMAGE:4284161 5'
5662	18498	31406	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-119-E04 NT0101 Homo sapiens cDNA
5662	18498	31407	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-119-E04 NT0101 Homo sapiens cDNA
6639	19501	32528	1.57	1.0E-66	BF329823.1	EST_HUMAN	RC5-BN0193-010600-034-G08 BN0193 Homo sapiens cDNA
6637	21050	34196	1.19	1.0E-66	AA088838.1	EST_HUMAN	es09a04.1 NCI_CGAP_G0381 Homo sapiens cDNA clone IMAGE:827262 3'
6626	21053	35164	0.84	1.0E-66	AA018828.1	EST_HUMAN	z57a12.1 Sources retina N264-HR Homo sapiens cDNA clone IMAGE:393118 5'
10270	22918	36120	0.92	1.0E-66	AV748746.1	EST_HUMAN	AV748746 NPC Homo sapiens cDNA clone NPCBVA05 5'
10270	22918	36130	0.92	1.0E-66	AV748746.1	EST_HUMAN	AV748746 NPC Homo sapiens cDNA clone NPCBVA05 5'
10682	23542	36789	2.48	1.0E-66	AF111187.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11508	24109	37422	1.8	1.0E-66	AW98744.1	EST_HUMAN	EST1380820 IMAGE resequences, MAGJ Homo sapiens cDNA
12713	24808		2.51	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
371	13196	25841	1.52	7.0E-67	AW162232.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1361	14109	26784	2.89	7.0E-67	AA383418.1	EST_HUMAN	EST198812 Testis 1 Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid
1547	14283	26979	1.38	7.0E-67	W85847.1	EST_HUMAN	zhs605.1 Sources fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
1547	14283	26980	1.38	7.0E-67	W85847.1	EST_HUMAN	zhs605.1 Sources fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2026	14761	27480	2.06	7.0E-67	7657243	NT	Homo sapiens Inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2026	14761	27480	2.06	7.0E-67	7657243	NT	Homo sapiens Inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2813	13186	25841	3.4	7.0E-67	AW162232.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
5986	18770	31753	0.78	7.0E-67	10190895	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6177	18954	31927	2.02	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6177	18954	31928	2.02	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6623	19085	32389	1.28	7.0E-67	4885084	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110118KD) (ATP9A1A), mRNA
7631	20201	33266	1	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55672), mRNA
7631	20201	33297	1	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55672), mRNA
8222	20916	34052	0.58	7.0E-67	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2), mRNA
8830	21522	34660	0.58	7.0E-67	10835044	NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1877	14614	27325	1.36	2.0E-67	BE303037.1	EST_HUMAN	bat72q05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805978 5' similar to TR:094892 094892 KIAA0798 PROTEIN ;
1877	14614	27326	1.38	2.0E-67	BE303037.1	EST_HUMAN	bat72q05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805978 5' similar to TR:094892 094892 KIAA0798 PROTEIN ;
2235	14693	27702	1.3	2.0E-67	11422848	NT	Homo sapiens hypothetical protein dJ462023.2 (DJA62023.2), mRNA
2235	14693	27703	1.3	2.0E-67	11422848	NT	Homo sapiens hypothetical protein dJ462023.2 (DJA62023.2), mRNA
2384	15106	27845	1.09	2.0E-67	AF309581.1	NT	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds
2432	16153	27887	1.28	2.0E-67	4758798	NT	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3460	16216	28870	3.8	2.0E-67	AA625755.1	EST_HUMAN	z81g01.at Scores_beta_NHT Homo sapiens cDNA clone IMAGE:745392 3'
3884	16732	28396	3.03	2.0E-67	AL163300.2	NT	Homo sapiens circovirus 21 segment HS21C100
5081	18762	31726	0.8	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
8034	16814	31774	5.54	2.0E-67	BF240758.1	EST_HUMAN	801878335F1 NIH_MGC 56 Homo sapiens cDNA clone IMAGE:4091893 5'
8203	18678	31958	2.48	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
8203	18678	31957	2.48	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
8545	15310	32315	0.76	2.0E-67	AL120542.1	EST_HUMAN	DKFZp761A228 J1 781 (synonym: hary2) Homo sapiens cDNA clone DKFZp761A228 5'
8456	21148	34280	0.82	2.0E-67	AA334606.1	EST_HUMAN	EST138850 Embryo, 9 week Homo sapiens cDNA 5' and similar to cerebellin
8456	21148	34281	0.82	2.0E-67	AA334606.1	EST_HUMAN	EST138850 Embryo, 9 week Homo sapiens cDNA 5' and similar to cerebellin
8895	21989	34724	1.21	2.0E-67	AW602835.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
8895	21989	34725	1.21	2.0E-67	AW602835.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
9466	22076	35248	0.83	2.0E-67	AV731333.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFAR035 5'
9608	22261	35447	0.97	2.0E-67	AW230624.1	EST_HUMAN	UHH-B12-shn-a-10-0-UI at NCI CGAP Sub4 Homo sapiens cDNA clone IMAGE:2727783 3'
10670	23046	36888	3.72	2.0E-67	BF034485.1	EST_HUMAN	801465282F1 NIH_MGC 60 Homo sapiens cDNA clone IMAGE:3858076 5'
10689	25433	37145	4.67	2.0E-67	11439448	NT	Homo sapiens KIAA0385 protein (KIAA0385), mRNA
11163	23558	37145	2.11	2.0E-67	BE265714.1	EST_HUMAN	801175762F1 NIH_MGC 37 Homo sapiens cDNA clone IMAGE:3531038 5'
11434	23201	36433	1.86	2.0E-67	BF377169.1	EST_HUMAN	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12235	25231	30819	1.36	2.0E-67	11418198	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12527	24874	31018	2.05	2.0E-67	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
246	13055	25095	9.34	1.0E-67	4502196	NT	Homo sapiens amyloid beta (A4) precursor protein (protease meth-II, Alzheimer disease) (APP), mRNA
682	13467	26114	1.01	1.0E-67	AA702794.1	EST_HUMAN	280504.at Scores_beta_NHT Homo sapiens cDNA clone IMAGE:448015 3'
11846	24429	37770	8.88	1.0E-67	AB054867.1	EST_HUMAN	w655c12.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2310550 3'
2174	14903	27636	2.13	8.0E-68	BE870732.1	EST_HUMAN	801448559F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3862284 5'
3861	16901	29238	4.90	8.0E-68	AA209456.1	EST_HUMAN	z82h10.1t Stragene NHT neuron (8037233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW-SAV SULAC Q07590 SAV PROTEIN ;

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3951	19801	26239	4.06	8.0E-08	AA200456.1	EST_HUMAN	zab2h10.11 Stratagene INT neuron (#63723) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW-SAV_SULAC Q07560 SAV PROTEIN ;
8000	20095	33822	0.55	7.0E-08	AB010505.1	EST_HUMAN	W88e03.x1 NCI CGAP P128 Homo sapiens cDNA clone IMAGE:2312860 3'
7737	20402	33518	0.58	6.0E-08	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
10347	22994	34213	2.47	6.0E-08	11422088	NT	Homo sapiens baf101 A-inhibited guanine nucleotide-exchange protein 2 (BIC2), mRNA
11007	23767	37042	1.81	6.0E-08	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12629	24875		1.78	6.0E-08	BE012554.1	EST_HUMAN	60145207F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3855781 5'
12772	25028	30683	1.4	6.0E-08	BF310875.1	EST_HUMAN	80189493F2 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:4124144 5'
800	13572	26233	5.05	5.0E-08	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
800	13572	26234	5.05	5.0E-08	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2783	15488	28228	1.36	5.0E-08	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	15908	28583	3.23	5.0E-08	AB037862.1	NT	Homo sapiens chromosome 21 unknown mRNA
4457	17193	23819	0.73	5.0E-08	AL157645.1	EST_HUMAN	DKFZ547D207.J1 547 (synonym: h071) Homo sapiens cDNA clone DKFZ547D207 5'
6827	19389	32402	0.81	5.0E-08	7019512	NT	Homo sapiens RAB3A interacting protein (rab3i)-like 1 (RAB3IL1), mRNA
6827	19389	32403	0.81	5.0E-08	7019512	NT	Homo sapiens RAB3A interacting protein (rab3i)-like 1 (RAB3IL1), mRNA
4918	17845		8.95	4.0E-08	P04409	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
5098	17817	30434	0.87	4.0E-08	7548804	NT	Homo sapiens sedlin (SEDL) gene, exon 4
5874	18661	31802	0.7	4.0E-08	AF157083.1	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32929	8.51	4.0E-08	11055981	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32930	8.51	4.0E-08	11055981	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7582	20250	33336	0.86	4.0E-08	7881683	NT	Homo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA
8938	21629	34771	5.05	4.0E-08	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8938	21629	34772	5.05	4.0E-08	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8077	21766	34629	3.08	4.0E-08	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
10925	23905	36854	1.68	4.0E-08	4502822	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1), mRNA
10925	23905	36855	1.68	4.0E-08	4502822	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1), mRNA
11115	23785	37081	1.28	4.0E-08	AB040948.1	NT	Homo sapiens mRNA for KIAA1515 protein, partial cds
11828	24412	37749	1.39	4.0E-08	AJ261760.1	NT	Homo sapiens NESPE5, GNAS1 antisense (partial) and XLA-splase (partial) genes
11864	24448	37780	12.15	4.0E-08	4758287	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
11864	24448	37790	12.15	4.0E-08	4758287	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
3693	18408	20045	5.37	3.0E-08	AF23082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9357	20428		5.82	3.0E-08	AI342323.1	EST_HUMAN	q28h02.x1 Soares fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:1960201 3' similar to contains THR12 THR repetitive element ;

Page 348 of 536

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10369	23045	36281	1.23	3.0E-68	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s300023D09
2865	17863		15.31	2.0E-68	D00522.1	NT	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds
4633	17368	30004	1.38	2.0E-68	AB006881.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
6778	18520		9.54	2.0E-68	R46098.1	EST_HUMAN	X238y04.s1 Scoville Infant brain 11B1B Homo sapiens cDNA clone IMAGE:34898 3'
6963	19445	32402	5.39	2.0E-68	BF03316.1	EST_HUMAN	801458514F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3652034 5'
7270	19854	33030	0.73	2.0E-68	BF330745.1	EST_HUMAN	IL3-CT10534-180900-273-A01 CT0534 Homo sapiens cDNA
8848	21539	34686	0.63	2.0E-68	Q06890	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
10505	23151	36376	0.75	2.0E-68	N78488.1	EST_HUMAN	X278d07.1 Scoville multiple sclerosis 2NHNISP Homo sapiens cDNA clone IMAGE:289165 5'
11210	23873	37160	1.06	2.0E-68	BF330594.1	EST_HUMAN	QV0-BT0074-130949-014-gp4 BT0074 Homo sapiens cDNA
77	12903	25641	1	1.0E-68	4506222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
289	13095	25737	13	1.0E-68	AW618405.1	EST_HUMAN	QV4-ST0234-181196-037-A05 ST0234 Homo sapiens cDNA
2248	14077	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2249	14077	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
3981	16739	29373	0.86	1.0E-68	BE29032.1	EST_HUMAN	801177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'
4609	17694	30302	0.92	1.0E-68	AA087343.1	EST_HUMAN	847G12.s1 Scoville_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5239	18045	30874	1.37	1.0E-68	7862349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0888), mRNA
7678	20245	33350	1	1.0E-68	11430716	NT	Homo sapiens scirrhous/SMO-specific protease (SENIP1), mRNA
10373	23019	36235	0.6	1.0E-68	AA429538.1	EST_HUMAN	zr7402.1 Scoville_testis_NHT Homo sapiens cDNA clone IMAGE:781923 5'
10758	23441	36886	1.86	1.0E-68	11418890	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10766	23441	36886	1.85	1.0E-68	11418890	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10819	23502	36741	3.5	1.0E-68	L76418.1	NT	Homo sapiens MIF2 suppressor (HSM13), mRNA, complete cds
11148	23815	37098	1.71	1.0E-68	11433277	NT	Homo sapiens myosin IC (MYO1C), mRNA
11229	23889	37178	1.62	1.0E-68	AF043126.1	NT	Homo sapiens interleukin-7 receptor precursor (IL7R) gene, exons 7 and 8 and complete cds
11270	23881	37223	1.26	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCOSH) gene, exon 4-5
11270	23831	37224	1.26	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCOSH) gene, exon 4-5
11666	24261	37564	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-76 protein (LOC51632), mRNA
11666	24261	37565	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-76 protein (LOC51632), mRNA
12511	12903	25541	2.06	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12719	25322	30712	2.11	1.0E-68	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
19	12847	25460	1.16	9.0E-69	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
19	12847	25461	1.16	9.0E-69	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1006	13766	26428	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1006	13766	26427	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2275	15001	27740	1.15	9.0E-69	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2275	15001	27741	1.15	9.0E-09	4758279	NT	Homo sapiens EptAA4 (EPHAA4) mRNA
4109	19852	29479	0.71	9.0E-09	4757987	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
10805	23488		6.5	9.0E-09	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000688 5'
3381	15140		1.09	8.0E-09	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
6259	19033	32008	6.49	7.0E-09	9969912	NT	Homo sapiens actin-related protein 3-beta (ARPP3BETA), mRNA
7762	20468	33581	9.09	8.0E-09	A192764.1	EST_HUMAN	cd02901.x1 Soares_fetal lung_NHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gb:L11608.605 RIBOSOMAL PROTEIN L18 (HUMAN);
7762	20438	33982	9.09	6.0E-09	A192764.1	EST_HUMAN	cd02901.x1 Soares_fetal lung_NHL19W Homo sapiens cDNA clone IMAGE:1372800 3'
8873	21564	34709	1.01	5.0E-09	A4826039.1	EST_HUMAN	cd06003.s1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437125 3'
507	13291		1.76	4.0E-09	AU879830.1	EST_HUMAN	wn28r111.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437125 3'
5074	25073	31394	1.42	4.0E-09	BE561063.1	EST_HUMAN	801344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
5763	18545	31487	5.28	4.0E-09	A1764973.1	EST_HUMAN	wh57606.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR:O55137
6531	19297	32301	2.71	4.0E-09		EST_HUMAN	O55137 ACYL-COA THIOESTERASE ;
6531	19297	32302	2.71	4.0E-09	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8812	21504	34651	0.82	4.0E-09	AU119834.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
377	13202	29948	3.89	3.0E-09	BE288012.1	EST_HUMAN	AU119834 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
598	13376	26006	2.32	3.0E-09	AF221712.1	NT	80110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
							Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
1548	14294		3.19	3.0E-09	T80514.1	EST_HUMAN	yd08a02.r1 Soares Infant brain_N1B Homo sapiens cDNA clone IMAGE:24890 5' similar to SP:A48836
5163	17594	37797	3.64	3.0E-09	11418185	NT	A48836 SPECIF III-EQF REINIT-CONTAINING FIBROPELIN-LIKE PROTEIN - SEA URCHIN ;
							Homo sapiens acetylase 2, mitochondrial (AC02), mRNA
6705	19020		0.87	3.0E-09	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6750	17528	30553	0.74	3.0E-09	11428798	NT	Homo sapiens sperm surface protein (HSS), mRNA
							Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADH-SC) gene, nuclear gene encoding mitochondrial protein, complete cds
7272	19586	33032	0.68	3.0E-09	AF096703.1	NT	Homo sapiens arm-repeat protein NFAP1/neurongin (CTNND2) mRNA, partial cds
7320	20003	33082	1.83	3.0E-09	U62351.1	NT	Homo sapiens TRAF6-binding protein TRAF6 mRNA, complete cds
7461	20127	33219	8.32	3.0E-09	AF268075.1	NT	Homo sapiens TRAF6-binding protein TRAF6 mRNA, complete cds
8270	20994	34106	0.88	3.0E-09	AW138846.1	EST_HUMAN	UI-H-BI- <i>new</i> -q-01-q-UJ1 NCL_CGAP_SUG3 Homo sapiens cDNA clone IMAGE:2718840 3'
8696	21358		0.65	3.0E-09	AA376369.1	EST_HUMAN	EST188807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
9313	21980	35152	1.01	3.0E-09	X13223.1	NT	H. sapiens mRNA for N-acetylglucosaminide-(beta 1-4)-galactosyltransferase

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9453	22111	35286	2.03	3.0E-09	X06233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
9729	22380	35592	0.75	3.0E-09	5730036	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10638	23236	36488	1.44	3.0E-09	11432120	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
10745	23432		7.81	3.0E-09	AA376389.1	EST_HUMAN	EST18807 HSC172 cells II Homo sapiens cDNA 5' and similar to similar to ribosomal protein S18
12024	24552		5.17	3.0E-09	11419187	NT	Homo sapiens HSC82.2 protein (HSC82), mRNA
126	13180	25827	1.84	2.0E-09	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
126	13180	25828	1.84	2.0E-09	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
305	13180	25827	10.33	2.0E-09	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
305	13180	25828	10.33	2.0E-09	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1878	14615	27327	2.08	2.0E-09	BE267867.1	EST_HUMAN	601109444F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350074 5'
2848	15918		3.16	2.0E-09	AA431157.1	EST_HUMAN	2671902r1 Sources Testis NIH Homo sapiens cDNA clone IMAGE:781082 5'
9402	21144	34284	1.08	2.0E-09	AA114270.1	EST_HUMAN	znt2g01.1 Stratagene pancreas (4837208) Homo sapiens cDNA clone IMAGE:527088 5'
1698	14441	27139	1.98	1.0E-09	AF053768.1	NT	Rattus norvegicus brain specific corticosterone-binding protein CBP80 mRNA, partial cds
4982	17687		0.74	1.0E-09	BE409394.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
5958	18741	31700	0.87	1.0E-09	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
9058	18741	31701	0.87	1.0E-09	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
9508	19273	32274	4.37	1.0E-09	AW383989.1	EST_HUMAN	QVC-TT0010-031199-045-c07 T10010 Homo sapiens cDNA
6721	19336	32379	1.28	1.0E-09		NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6721	19336	32380	1.28	1.0E-09	7682283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	19671	32903	3.01	1.0E-09	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6737	19671	32904	3.01	1.0E-09	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	19526	32554	1.14	1.0E-09	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
6782	19526	32555	1.14	1.0E-09	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10073	22721	35937	4.91	1.0E-09	BE245070.1	EST_HUMAN	TCBAP IE2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10073	22721	35938	4.91	1.0E-09	BE245070.1	EST_HUMAN	TCBAP IE2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10188	22816	36034	1.38	1.0E-09	AB014807.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10314	22861	36177	0.57	1.0E-09	BF528429.1	EST_HUMAN	602043782F1 NCI CCAP Brn67 Homo sapiens cDNA clone IMAGE:4181325 5'
10782	23485		10.62	1.0E-09	4504918	NT	Homo sapiens keratin 5 (KRT5) mRNA
11904	24512	37281	1.74	1.0E-09	BF125987.1	EST_HUMAN	601762802F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12398	24789		4.45	1.0E-09	AB099994.1	EST_HUMAN	wf4408.x1 Sources NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element, contains element MIR repetitive element

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2331	15501	27191	2.08	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.1 NC1 CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
4340	17079	29708	1.93	8.0E-70	L77686.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1806	14546	27260	1.01	7.0E-70	A1467807.1	EST_HUMAN	Im8901.x1 NC1 CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2165305 3'
1806	14546	27261	1.01	7.0E-70	A1467807.1	EST_HUMAN	Im8901.x1 NC1 CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2165305 3'
1923	14800	27371	1.06	7.0E-70	AA282856.1	EST_HUMAN	211904.1 NC1 CGAP_G0B1 Homo sapiens cDNA clone IMAGE:713238 5'
2056	17488		2.92	7.0E-70	5031698	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-IR) mRNA
4160	16040	29568	3.97	7.0E-70	4757723	NT	Homo sapiens adenylylase cyclase 3 (ADCY3) mRNA
5365	18163	30888	4.98	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5365	18166	30889	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
8828	19487	32509	2.16	7.0E-70	AJ000052.1	NT	Homo sapiens MIST mRNA, partial cds
8330	21023	34159	2.2	7.0E-70	AB037713.1	NT	Homo sapiens gene encoding splicing factor SF1, exon 2-8
8330	21023	34160	2.2	7.0E-70	AB037713.1	NT	Homo sapiens gene encoding splicing factor SF1, exon 2-8
8622	21314	34457	3.58	7.0E-70	M74098.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8622	21314	34458	3.58	7.0E-70	M74098.1	NT	Human displacement protein (GCAAT) mRNA
9055	21744	34602	3.8	7.0E-70	X59841.1	NT	Human displacement protein (GCAAT) mRNA
9055	21744	34603	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
8336	20409	33822	3.43	7.0E-70	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9361	20431	33951	2.09	7.0E-70	11525904	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9361	20431	33952	2.80	7.0E-70	11525904	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9566	22206	35394	0.57	7.0E-70	4957624	NT	Homo sapiens glutamate-cysteine lyase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10196	22844	36058	0.62	7.0E-70	AB036420.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10196	22844	36059	0.62	7.0E-70	AB036420.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11010	23682	36841	1.54	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spasin) (SPG4), mRNA
11010	23682	36842	1.54	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spasin) (SPG4), mRNA
11597	24198	37515	1.05	7.0E-70	11520319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11597	24198	37516	1.05	7.0E-70	11520319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
851	19621	26291	1.77	6.0E-70	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease notch-II, Alzheimer disease) (APP), mRNA
2133	14863	27593	1.21	8.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2513	15290	27970	1.22	6.0E-70	8623869	NT	Homo sapiens GMP-N-acetylneuraminic acid synthase (LOC55807), mRNA
2555	15598	28003	2.18	5.0E-70	7692307	NT	Homo sapiens KIAA0782 gene product (KIAA0782), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2555	15598	28004	2.18	5.0E-70	7682307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
11974	24519		2.75	5.0E-70	BE168034.1	EST_HUMAN	MRP3-H10487-160200-115-408 H10487 Homo sapiens cDNA
6650	19417	32431	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03528 Fetal brain, Striatum (cell6936206) Homo sapiens cDNA clone HFBDN25
6698	19613	32953	1.78	4.0E-70	AW793226.1	EST_HUMAN	CH44JM0003-010300-105-508 UM0003 Homo sapiens cDNA
6686	19013	32054	1.78	4.0E-70	AW793226.1	EST_HUMAN	CH44JM0003-010300-105-508 UM0003 Homo sapiens cDNA
1584	14330	27016	1.23	3.0E-70	BE071798.1	EST_HUMAN	RCO-BT0522-071299-011-412 BT0522 Homo sapiens cDNA
1584	14330	27017	1.23	3.0E-70	BE071798.1	EST_HUMAN	RCO-BT0522-071299-011-412 BT0522 Homo sapiens cDNA
5532	18330	31234	0.95	3.0E-70	11430688	NT	Homo sapiens pleckstrin 4 (PKP4), mRNA
5532	18330	31235	0.95	3.0E-70	11430688	NT	Homo sapiens pleckstrin 4 (PKP4), mRNA
5855	18642	31581	1.6	3.0E-70	A1831975.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:2388005 3'
6280	18053	32031	1.85	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 3'
6280	18053	32032	1.85	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
10008	22659	35899	0.58	3.0E-70	BE602973.1	EST_HUMAN	H2B1102.X1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
37	12866	25484	1.2	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
673	13449	26089	14.09	2.0E-70	N42161.1	EST_HUMAN	Y07a10.1 Scores melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW-D3HL_RAT_P28298 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
673	13449	26090	14.09	2.0E-70	N42161.1	EST_HUMAN	Y07a10.1 Scores melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW-D3HL_RAT_P28298 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
688	13464	26113	1.7	2.0E-70	AL246896.1	EST_HUMAN	qp51101.X1 NCI_CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2004813 3'
1000	13760	28421	1.56	2.0E-70	8623698	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1161	13615	26078	3.05	2.0E-70	7961983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1161	13615	26079	3.05	2.0E-70	7961983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1736	14478	27177	1.86	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15043		5.32	2.0E-70	AA054010.1	EST_HUMAN	Z49504.1 Scores ratia NZB4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3915	16368	29011	0.78	2.0E-70	H37988.1	EST_HUMAN	P03345 GAG POLYPROTEIN ;
4027	16772	29404	5.09	2.0E-70	MG9181.1	NT	Yp58B04.L1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:191589 5'
5428	18227	30839	8.7	2.0E-70	X72962.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5428	18227	30840	8.7	2.0E-70	X72962.1	NT	H.sapiens gene for schwannomin (CS8)
6111	18898	31857	1.27	2.0E-70	AF10105.1	NT	H.sapiens gene for schwannomin (CS8)
6638	19303	32307	1.78	2.0E-70	D12625.1	NT	Homo sapiens NALP1 mRNA, complete cds
6638	19303	32342	12.14	2.0E-70	AF123074.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6659	19333	32342	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6659	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6897	17973	30630	1.88	2.0E-70	11422942	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
7303	19886	33062	0.76	2.0E-70	AF28207.1	NT	Homo sapiens cysteine-RNA synthetase mRNA, complete cds, alternatively spliced
7819	20514	33639	9.02	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8121	20515	33951	0.5	2.0E-70	11423569	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
8558	21250		0.8	2.0E-70	H47059.1	EST_HUMAN	h79g02.1 Soares fetal liver spleen _INFLS_Homo sapiens cDNA clone IMAGE:103882 5'
8087	21766	34918	0.85	2.0E-70	11526355	NT	Homo sapiens dynactin p22 subunit (LOC81194), mRNA
10038	22886	36904	1.46	2.0E-70	AF12303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10500	23146	36373	0.47	2.0E-70	AB033042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11005	23677	36833	3.75	2.0E-70	8623420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11005	23677	36934	3.75	2.0E-70	8623420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11836	24236	37559	7.32	2.0E-70	4503520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6) mRNA
12353	24767	31058	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12353	24757	31059	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3388	16147		2.83	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
9180	21850		0.09	1.0E-70	W95785.1	EST_HUMAN	z65505.1 Soares fetal liver spleen _INFLS_S1 Homo sapiens cDNA clone IMAGE:418024 5'
9698	22349		0.65	1.0E-70	AA442292.1	EST_HUMAN	z654403.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
10852	23532	36777	7.13	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLEGB:0 5'
9854	18641	31579	7.05	9.0E-71	A1143670.1	EST_HUMAN	q60401.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1738008 3' similar to TR:O14045 O14045 PHOSPHOTRANSFERASE ;
5854	18641	31580	7.05	9.0E-71	A1143670.1	EST_HUMAN	q60401.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045 O14045 PHOSPHOTRANSFERASE ;
6832	19898	32714	2.23	9.0E-71	A054603.1	EST_HUMAN	w65205.1 NCI CGAP_G03 Homo sapiens cDNA clone IMAGE:230286 3' similar to TR:P7213 P7213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
11508	19898	32714	4.79	9.0E-71	A054603.1	EST_HUMAN	w65205.1 NCI CGAP_G03 Homo sapiens cDNA clone IMAGE:230286 3' similar to TR:P7213 P7213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
8968	21659		5.03	8.0E-71	AA171451.1	EST_HUMAN	z621411.1 Striatopone neuroepithelium (8637231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRATIN XA34 POL ;
7275	19959	33038	8.9	7.0E-71	AA442290.1	EST_HUMAN	z60008.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'
8578	21961	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	z871a05.1 Soares fetal liver spleen _INFLS_S1 Homo sapiens cDNA clone IMAGE:462228 3'
11302	23961	37282	2.07	7.0E-71	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2207	14895	27673	5.97	5.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4101	16844	29472	1.36	5.0E-71	AW818405.1	EST_HUMAN	QV4-ST0234-181100-097406 ST0234 Homo sapiens cDNA
5790	18581	31508	2.23	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6584	19329	32336	1.42	5.0E-71	11641408	NT	Homo sapiens keratin, hair, acidic, 7 (KRT47) mRNA
6821	19482	32504	1.43	5.0E-71	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6878	17954	30550	0.82	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
6878	17954	30551	0.82	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7048	19737	32798	0.78	5.0E-71	11431500	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7410	20087	33171	1.47	5.0E-71	M38108.1	NT	Human neurotrophin-3 protein type 1 mRNA, 3' end of cds
7607	20273	33381	0.75	5.0E-71	11520443	NT	Homo sapiens MAGUK protein p5ST: Protein Associated with Lns 2 (LOC81878), mRNA
7634	20289	33408	22.59	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8421	21114	34251	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8421	21114	34252	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
9811	22462	34262	2.87	5.0E-71	X13487.1	NT	Human PrkA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10530	23227	38461	1.45	5.0E-71	5729800	NT	Homo sapiens IGF-1 mRNA-binding protein 3 (KOC1), mRNA
10801	23581	38831	2.83	5.0E-71	11439514	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11147	23814	37067	2.57	5.0E-71	11439090	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC883326), mRNA
340	13141	25778	102.7	4.0E-71	AF157028.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
340	13141	25779	102.7	4.0E-71	AF157028.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2888	15656	28299	1.97	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4394	17131	28762	3.37	4.0E-71	AF066322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4828	17854	30286	5.97	4.0E-71	7657802	NT	Homo sapiens putative home-binding protein (SOUL), mRNA
5090	17788	30404	1.1	4.0E-71	7018352	NT	Homo sapiens collector required for Sp1 transcriptional activation, subunit 3 (130KD) (CRSP3), mRNA
7833	20628		1.41	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone PLACE1002775 5'
10601	22285	36529	3.38	3.0E-71	AA557883.1	EST_HUMAN	nt45110 at NCBI_GGAP_P14 Homo sapiens cDNA clone IMAGE:1043883 similar to contains P1TR6.13 P1TR6 repetitive element;
1208	13959	26626	2.02	2.0E-71	AL163200.2	NT	Homo sapiens chromosome 21 segment HS21C008
5237	18043	30672	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5237	18043	30673	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
6871	17948	30543	0.55	2.0E-71	AL042439.1	EST_HUMAN	DKFZp34D1721.J1 434 (synonym: hsc3) Homo sapiens cDNA clone DKFZp34D1721 5'
							7n65c11.1 at NCBI_GGAP_Ov18 Homo sapiens cDNA clone IMAGE:3571221 3' similar to TR-Q97185
8803	21594	34735	0.84	2.0E-71	BF196585.1	EST_HUMAN	Q92185 PUTATIVE FOUR REPEAT ION CHANNEL;

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10485	23131	34357	3.88	2.0E-71	AF085703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10485	23131	34358	3.88	2.0E-71	AF085703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10583	23287	36524	3.21	2.0E-71	BE018477.1	EST_HUMAN	bb81a06.y1 NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3048754.5 similar to SW-R23B_HUMAN P64727 UV EXCISION REPAIR PROTEIN PROTEIN RAD23 HOMOLOG B ;
11552	24151	37463	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tm0222 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11552	24151	37464	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tm0222 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11578	24175	37460	2.35	2.0E-71	RS9626.1	EST_HUMAN	Y77611.1 Scores breast 2NHBBS1 Homo sapiens cDNA clone IMAGE:164772.6
12038	24561		8.43	2.0E-71	T95489.1	EST_HUMAN	ye43a09.1 Scores fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:120520.5
623	13402	26037	1.83	1.0E-71	AJ077927.1	EST_HUMAN	oy15a03.x1 Scores_senescence_fibroblasts NBHSF Homo sapiens cDNA clone IMAGE:1665016.3 similar to contains LOR1 b2 LOR1 repetitive element ;
820	13687	26351	2.37	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616) mRNA
1078	13836	26494	6.15	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1317	14068	26740	11.71	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2074	14806	27838	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2.16 mRNA, partial cds
2074	14806	27837	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2.16 mRNA, partial cds
2698	15407	28142	3.81	1.0E-71	7687153	NT	Homo sapiens hairyenhancer-of-split related with YRPW motif-like (HEY1), mRNA
3463	16249	28603	2.83	1.0E-71	AF119666.1	NT	Homo sapiens Inorganic pyrophosphatase mRNA, complete cds
3593	16338	28962	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3593	16338	28963	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3639	16392	29031	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA clone 02_15 6' similar to Homo sapiens chromosome 19
3639	16392	29032	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3724	16477	29114	2	1.0E-71	AF218904.1	NT	Homo sapiens atrial precursor (ATR1) gene, exon 19
4437	17173	29801	1.92	1.0E-71	D28478.1	NT	Human mRNA for KIAA0045 gene, complete cds
4562	17287	29916	0.98	1.0E-71	H23176.1	EST_HUMAN	yms96h10.1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52528.6'
9643	19405	32420	1.07	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog) like 2 (GCN5L2), mRNA
6898	19579	32728	1.39	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7211	19896	32971	13.35	1.0E-71	U80763.1	NT	Homo sapiens CAGL79 mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8046	20740	33872	0.89	1.0E-71	AF105287.1	NT	Homo sapiens glycerol-6 (GPO6) mRNA, complete cds
8069	20763	33881	2.26	1.0E-71	11425430	NT	Homo sapiens myosin (M-protein) 2 (185KD) (MYOM2), mRNA
8345	21038	34174	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10988 (FLJ10988), mRNA
8345	21038	34175	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10988 (FLJ10988), mRNA
9128	21816	34982	0.78	1.0E-71	S72393.1	NT	CSNK2A1-casein kinase II (CKII) subunit alpha [human, Genomic, 18892 nt]
9908	22557	35782	7.89	1.0E-71	AY007643.1	NT	Homo sapiens cycloheximide catabolase subunit VII-related protein gene, complete cds
9968	22816		2.05	1.0E-71	AY071217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10436	23082	36309	1.45	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
10684	23375		2.58	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10766	23476	36720	2.19	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11063	23763	37037	1.73	1.0E-71	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11063	23763	37038	1.73	1.0E-71	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
12401	24786		4.96	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
368	13183	25830	1.72	9.0E-72	AI857635.1	EST_HUMAN	wk55g03.x1 NCL_CGAP_Lut19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O88705 O88705
368	13183	25831	1.72	9.0E-72	AI857635.1	EST_HUMAN	HYPOTHETICAL 38.6 KD PROTEIN, contains AU repetitive element;
6020	18801	31762	0.97	8.0E-72	BF035752.1	EST_HUMAN	wk55g03.x1 NCL_CGAP_Lut19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O88705 O88705
4092	16834	29458	2.83	7.0E-72	4501868	NT	HYPOTHETICAL 38.6 KD PROTEIN, contains AU repetitive element;
4092	16834	29459	2.83	7.0E-72	4501868	NT	801458747F1NH_MGC_68 Homo sapiens cDNA clone IMAGE:3862451 5'
4092	16834	29460	2.83	7.0E-72	4501868	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29460	2.83	7.0E-72	4501868	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29460	2.83	7.0E-72	4501868	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7024	19716	32773	2.99	7.0E-72	S41604.1	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
12620	24868		1.9	7.0E-72	F08259.1	EST_HUMAN	(pseudogene) PTMAP2-pyruvate kinase alpha [human, Genomic, 1192 nt, segment 2 of 3]
8283	20977		4.14	6.0E-72	AL163246.2	NT	HSPD13870 HMG3 Homo sapiens cDNA clone s4000057G02
60	12989	25621	1.06	5.0E-72	BF333707.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
60	12989	25622	1.06	5.0E-72	BF333707.1	EST_HUMAN	QVO-C50010-150900-388-#11 CS0010 Homo sapiens cDNA
61	12989	25622	3.47	5.0E-72	BF333707.1	EST_HUMAN	QVO-C50010-150900-388-#11 CS0010 Homo sapiens cDNA
61	12989	25622	3.47	5.0E-72	BF333707.1	EST_HUMAN	QVO-C50010-150900-388-#11 CS0010 Homo sapiens cDNA
1117	13874		3.62	5.0E-72	L11645.1	NT	QVO-C50010-150900-388-#11 CS0010 Homo sapiens cDNA
6851	19551	32581	1.99	5.0E-72	AU126594.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
							AU126594 NT ZRP2 Homo sapiens cDNA clone NT ZRP2003751 5'

Page 357 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7731	20394	33509	0.73	5.0E-72	AA31932.1	EST_HUMAN	EST1188312 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to FAC1
8876	21367	34514	3.71	6.0E-72	AW161274.1	EST_HUMAN	eu80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR-Q36785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN contains element MSR1 repetitive element;
9861	22511	35708	0.86	5.0E-72	AW724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAK061 5'
11208	23871	37157	3.45	5.0E-72	BF331671.1	EST_HUMAN	MR4-B170568-010600-005-405 BT0568 Homo sapiens cDNA
11208	23871	37158	3.45	5.0E-72	BF331671.1	EST_HUMAN	MR4-B170568-010600-005-405 BT0568 Homo sapiens cDNA
11643	24240	37563	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2823806 5'
11643	24240	37564	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2823806 5'
12107	25568		2.82	6.0E-72	BE226845.1	EST_HUMAN	QV1-B170632-280800-342-410 BT0632 Homo sapiens cDNA
8378	18178	30868	0.82	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-65 (ZFP65) mRNA, alternatively spliced, complete cds y833a07.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP-A44282 A44282 RETROVIRUS-RELATED POL POLYPROTEIN - HUMAN;
8462	19229	32230	0.88	4.0E-72	T87047.1	EST_HUMAN	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
7309	16922	33069	2.03	4.0E-72	5729857	NT	Homo sapiens hypothetical protein FLJ20768 (FLJ20768), mRNA
9884	22336	35531	1.3	4.0E-72	8623669	NT	Homo sapiens hypothetical protein FLJ20768 (FLJ20768), mRNA
10292	22939	36162	0.48	4.0E-72	AW838230.1	EST_HUMAN	RC3-L1T0023-200100-012-411 L1T0023 Homo sapiens cDNA
10292	22939	36163	0.48	4.0E-72	AW838230.1	EST_HUMAN	RC3-L1T0023-200100-012-411 L1T0023 Homo sapiens cDNA
10320	22967	36188	0.92	4.0E-72	AU248786.1	EST_HUMAN	q957c02.x1 Scores fetal liver spleen INFLS_S1 Homo sapiens cDNA clone IMAGE:1846730 3' similar to TR-Q14498 Q14498 SPLICING FACTOR, [1], contains Alu repetitive element; contains element L1 repetitive element;
11256	23917	37210	1.57	4.0E-72	AA465388.1	EST_HUMAN	eu23308.s1 NC1_GCAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11256	23917	37211	1.57	4.0E-72	AA465388.1	EST_HUMAN	eu23308.s1 NC1_GCAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11514	24114	37424	7.78	4.0E-72	HT9421.1	EST_HUMAN	YU28a03.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:235084 5'
11637	24234	37555	1.76	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39KD) (EIF2B2), mRNA
11637	24234	37556	1.76	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39KD) (EIF2B2), mRNA
11680	24275	37597	2.16	4.0E-72	T81910.1	EST_HUMAN	YU28a03.s1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:106649 3'
12453	24822	31025	8.92	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and perid ZNF143 gene for zinc finger transcription factor
18	12846	25459	0.89	3.0E-72	5034978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
883	13652		1.52	3.0E-72	AA723823.1	EST_HUMAN	af93a06.s1 Scores testis_NHT Homo sapiens cDNA clone 1310280 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1132	13888	26546	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1132	13888	26547	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1171	13925	26587	0.72	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1171	13925	26588	0.72	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1510	14256	26942	1.24	3.0E-72	BE242161.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) BAYLOR-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3072	15338	26481	11.45	3.0E-72	AJ229043.1	NT	Homo sapiens 989 kb contig between AM1 and CBR1 on chromosome 21q22, segment 3/3
3273	16034	26684	2.17	3.0E-72	8923648	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3803	16555	29186	2.69	3.0E-72	S77589.1	NT	[human, precursor B-cell line REH, mRNA Partial, 211 nt]
4508	17243	29878	3.12	3.0E-72	11416168	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4715	17447	30079	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4715	17447	30080	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4882	17591	30215	0.85	3.0E-72	A054337.1	EST_HUMAN	W531a08.x1 NCI-OGAP_G08 Homo sapiens cDNA clone IMAGE:2307284 3'
5433	18232		1.27	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
5891	18678	31621	2.1	3.0E-72	AF073387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
5891	18678	31622	2.1	3.0E-72	AF073387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18853	31819	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6074	18853	31820	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6518	19281	32284	3.63	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7485	20157	33249	2.15	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
8075	20769	33898	0.86	3.0E-72	5031882	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
10331	22978	36198	1.2	3.0E-72	X98289.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
6890	18656	31597	1.91	2.0E-72	11428871	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
8963	21083	34832	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
8963	21083	34833	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
10640	22331	36589	2.47	2.0E-72	AA789277.1	EST_HUMAN	428409.e1 Source, testis, NHT Homo sapiens cDNA clone 1391609 3' similar to gb:202067 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN);
12449	24819	31022	5.76	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphatidylethanolamine transferase transcript mRNA, complete cds
2068	14800	27627	1.16	1.0E-72	AA846225.1	EST_HUMAN	483402.e1 Source, parathyroid, tumor_NBT-HPA Homo sapiens cDNA clone IMAGE:1397395 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5680	18473	31390	3.63	1.0E-72	7657876	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6464	19231	32231	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6464	19231	32232	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6538	25063	32305	1.2	1.0E-72	AV751818.1	EST_HUMAN	AV751818 NPfD Homo sapiens cDNA clone NPfDAE11 5'
7537	20207	33304	3.7	1.0E-72	BE176434.1	EST_HUMAN	RC4-HT10578-170300-012-g02 HT10578 Homo sapiens cDNA
7537	20207	33305	3.7	1.0E-72	BE176434.1	EST_HUMAN	RC4-HT10578-170300-012-g02 HT10578 Homo sapiens cDNA
9491	22144	33324	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9491	22144	33325	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1444	14191	28875	1.35	6.0E-73	AW374688.1	EST_HUMAN	MRO-C10063-071086-002-111 GT10063 Homo sapiens cDNA
10671	23551		15.11	9.0E-73	11424069	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1015	13774	26434	2.29	8.0E-73	AW071765.1	EST_HUMAN	ws5506.x1 NCI CQAP Bm28 Homo sapiens cDNA clone IMAGE:2501088 3' similar to TR-Q56050
6463	18292	31180	1	8.0E-73	4505798	NT	Q56050 HYPOTHETICAL PROTEIN MJ1668 ;
6478	19245	32245	5.16	8.0E-73	11428489	NT	Homo sapiens phosphatidylcholine 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7694	20689	33817	2.87	8.0E-73	AF113128.1	NT	Homo sapiens lysosomal homologue (LOC57151), mRNA
							Homo sapiens vacuolar ATPase isoform VA88 mRNA, complete cds
9283	21832	35105	6.25	8.0E-73	BE019600.1	EST_HUMAN	bb56206.y1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:304008, cds1 ACTIN, CYTOSOLIC 2 (HUMAN); gb:M21465 Mouse cytoskeletal genome-actin mRNA, complete cds (MOUSE);
9640	22292	35484	1.92	8.0E-73	11526037	NT	Homo sapiens interferon 12 receptor, beta 1 (IL12RB1), mRNA
9640	22292	35485	1.92	8.0E-73	11526037	NT	Homo sapiens interferon 12 receptor, beta 1 (IL12RB1), mRNA
10507	23163	36379	0.45	8.0E-73	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNF1) mRNA
11573	24172	37488	1.28	8.0E-73	11418780	NT	Homo sapiens DEAD-box protein (HAGE), mRNA
12506	24859	31012	3.31	8.0E-73	11418780	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (GZP-1), mRNA
1112	13069	26528	0.89	7.0E-73	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3295	16056	28705	1.18	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
4891	17618		1.35	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C008
154	12869		3.07	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7072	19763	32827	3.48	6.0E-73	BE168674.1	EST_HUMAN	QV0-HT10578-023300-137-403 HT10578 Homo sapiens cDNA
5173	17962	30497	2.2	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAMMAT), mRNA
1319	14067	20741	2.77	3.0E-73	AW843789.1	EST_HUMAN	CNM-CHN096-280100-164-008 CNM044 Homo sapiens cDNA
							zn05604.1 Sra09096 fetal ratine 537202 Homo sapiens cDNA clone IMAGE:565650 3' similar to
6538	19361	32374	0.71	3.0E-73	AA136403.1	EST_HUMAN	gb:Z20004, cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (H-UMAN);
8655	21348	34462	0.95	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'
8656	21348	34463	0.95	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11611	24209		1.51	3.0E-73	AJ004040.1	EST_HUMAN	cu11d02.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1825945 3'
12734	25003		1.5	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12738	25005		1.54	3.0E-73	AW898081.1	EST_HUMAN	RC3-NN0006-270400-011-c04 NN0006 Homo sapiens cDNA
831	13801	26271	1.43	2.0E-73	AF138887.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1939	14674		1.76	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0006-270400-011-c04 NN0006 Homo sapiens cDNA
2296	15021		1.3	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3171	16040	28590	3.88	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3538	16284	28943	0.91	2.0E-73	7699536	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3538	16294	28944	0.91	2.0E-73	7699538	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4401	17138		1.03	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6344	19114	32102	0.86	2.0E-73	AF086824.1	NT	Mus musculus rho/rac-interacting citron kinase (Cik) mRNA, complete cds
6344	19114	32103	0.88	2.0E-73	AF086824.1	NT	Mus musculus rho/rac-interacting citron kinase (Cik) mRNA, complete cds
6389	19158	32158	6.27	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6900	19363	32376	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6900	19363	32377	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
7698	20362	33476	0.89	2.0E-73	MB4048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
7701	20364	33478	0.73	2.0E-73	AB037750.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
9432	22110	35284	0.82	2.0E-73	AF196349.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
9432	22110	35285	0.82	2.0E-73	AF196349.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
10322	22960	39189	1.21	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10394	23040	39257	1.31	2.0E-73	11496980	NT	Homo sapiens superin (SVIL), transcript variant 1, mRNA
10394	23040	39258	1.31	2.0E-73	11496980	NT	Homo sapiens superin (SVIL), transcript variant 1, mRNA
10687	23682	39817	3.37	2.0E-73	4557612	NT	Homo sapiens glucosylceramidase (Krabbe disease) (GALC), mRNA
10687	23682	39818	3.37	2.0E-73	4557612	NT	Homo sapiens glucosylceramidase (Krabbe disease) (GALC), mRNA
11020	23682	39855	1.82	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12293	14874		1.83	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0006-270400-011-c04 NN0006 Homo sapiens cDNA
1778	14518	27221	1.71	1.0E-73	AJ121585.1	EST_HUMAN	AL121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000460 5'
2488	15205	27946	1.12	1.0E-73	AF196349.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
6286	19039	32015	1.07	1.0E-73	BE151283.1	EST_HUMAN	GM1-HT0282-111158-042-H10 HT0282 Homo sapiens cDNA
9399	22081	35230	1.37	1.0E-73	AI147427.1	EST_HUMAN	sg81007.1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1839837 5' similar to contains element MER22 repetitive element
11428	23195	36426	2.95	1.0E-73	BE395477.1	EST_HUMAN	901276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
723	13497	26150	1.06	8.0E-74	4557428	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
5824	18613	31544	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3428 nt]
5824	18613	31546	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3428 nt]
10791	23474		1.36	8.0E-74	N52239.1	EST_HUMAN	Y45g10.01 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:245828 3'
1942	14677	27380	2.59	7.0E-74	AJ001699.1	NT	Homo sapiens NK62D gene, exon 10
3322	16062	28732	1.08	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9142	21873	34038	2.83	7.0E-74	BE987432.1	EST_HUMAN	601640284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3032097 5'
12805	24958	31011	5.51	7.0E-74	BE286305.1	EST_HUMAN	601191927F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'
1100	13958	26518	2.4	6.0E-74	AF106907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
2314	15039	27778	11.76	6.0E-74	BE388280.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2314	15039	27777	11.76	6.0E-74	BE388280.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2987	15634	28279	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-est-h-03-Q-U1.at NCI_QGAP_Sub1 Homo sapiens cDNA clone IMAGE:2703955 3'
2987	15634	28280	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-est-h-03-Q-U1.at NCI_QGAP_Sub1 Homo sapiens cDNA clone IMAGE:2703955 3'
3700	16453	29062	1.34	6.0E-74	BE048846.1	EST_HUMAN	tr54e11.x1 NCI_QGAP_Kd11 Homo sapiens cDNA clone IMAGE:3132332 3'
3700	16453	29063	1.34	6.0E-74	BE048846.1	EST_HUMAN	tr54e11.x1 NCI_QGAP_Kd11 Homo sapiens cDNA clone IMAGE:3132332 3'
8281	18088	30744	3.02	6.0E-74	11058013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
885	13054	26322	7.33	6.0E-74	AW020896.1	EST_HUMAN	d177c09.y1 Marton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2709	15413		2.62	5.0E-74	AW362758.1	EST_HUMAN	PMO-CT0289-271098-001-H07 GT0289 Homo sapiens cDNA
6322	18125	30784	1.86	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5703	18497	31419	12.98	5.0E-74	X98870.1	NT	H. sapiens mRNA for TPCRT19 protein
5748	18540	31462	7.41	5.0E-74	4507898	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5819	18608	31538	1.84	5.0E-74	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
5819	18608	31537	1.84	5.0E-74	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6795	19539	32567	6.98	5.0E-74	7862263	NT	Homo sapiens KIAA0718 gene product (KIAA0718), mRNA
7598	19539	32567	6.98	5.0E-74	7862263	NT	Homo sapiens KIAA0718 gene product (KIAA0718), mRNA
7936	20031	33768	2.78	5.0E-74	11345483	NT	Homo sapiens KIAA0718 gene product (KIAA0718), mRNA
10636	23228	38565	2.66	5.0E-74	Y00420.1	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10636	23228	38566	2.66	5.0E-74	Y00420.1	NT	H. sapiens mRNA for HIP-1
10636	23228	38569	2.66	5.0E-74	Y00420.1	NT	H. sapiens mRNA for HIP-1
10757	23442	39687	2.89	5.0E-74	5729706	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
273	13080	25723	1.79	4.0E-74	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
832	13002	25722	5.15	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1855	14690	27403	2.02	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1955	14690	27404	2.02	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2065	14797	27523	2.76	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2065	14797	27524	2.76	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2128	14859	27589	1.96	4.0E-74	AB032894.1	NT	Homo sapiens mRNA for KIAA1188 protein, partial cds
2427	15148	27862	27.23	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene
3066	15653	28495	5.2	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene
3518	16274	28928	0.82	4.0E-74	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21G010
4041	16789	29414	1.03	4.0E-74	AL163217.2	NT	Homo sapiens chromosome 21 segment HS21G047
4520	17255	29889	2.23	4.0E-74	7862183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4573	17308	29937	0.86	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5015	17736	30343	0.96	4.0E-74	4804326	NT	Homo sapiens hydroxycyl-Coenzyme A dehydrogenase3-lysacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
5015	17736	30344	0.96	4.0E-74	4804326	NT	Homo sapiens hydroxycyl-Coenzyme A dehydrogenase3-lysacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8446	21140		8.45	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
8473	21165	34309	0.79	3.0E-74	9669312	NT	Homo sapiens actin-related protein 3-beta (ARPP3BETA), mRNA
9272	22026	35198	2.99	3.0E-74	M78894.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #836208) Homo sapiens cDNA clone H-ICP91
10237	22855	35098	2.98	3.0E-74	AA001493.1	EST_HUMAN	not7g05.x1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100984.3
938	13705	26370	175.01	2.0E-74	7890491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
938	13705	26371	175.01	2.0E-74	7890491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1162	13907	26370	1.11	2.0E-74	AF020062.1	NT	Human endogenous retrovirus HERV-K17D
1222	13972	26944	1.36	2.0E-74	A1950528.1	EST_HUMAN	w61907.x1 NCL CGAP_L128 Homo sapiens cDNA clone IMAGE:2547204.3 similar to SW:G095_HUMAN
1590	14336	27024	3.79	2.0E-74	4885198	NT	Q08379 GOLGIN-68, contains element MER22 repetitive element.
1590	14336	27025	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2609	15321	28063	0.94	2.0E-74	A1557280.1	EST_HUMAN	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
4945	17672	30281	2.44	2.0E-74	AL355062.1	NT	PT2.1_15_G11.r tumor2 Homo sapiens cDNA 3'
4945	17672	30282	2.44	2.0E-74	AL355062.1	NT	Novel human gene mapping to chromosome 22
4945	17672	30282	2.44	2.0E-74	AL355062.1	NT	Novel human gene mapping to chromosome 22

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4949	17676	30286	1.11	2.0E-74	U02863.1	NT	Human platelet glycoprotein IIb mRNA, 3' end
5709	25074	31424	2.5	2.0E-74	BE711134.1	EST_HUMAN	RC8-HT0878-220500-011-C03 HT0878 Homo sapiens cDNA
5806	25077	31521	1.80	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
5808	25077	31522	1.80	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
5876	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
5878	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73IN-CO-38), mRNA
7003	19995	32748	0.92	2.0E-74	BF030788.1	EST_HUMAN	HT1557524F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827548 5'
7841	20338	33863	1.29	2.0E-74	AB037616.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9282	22036	35208	6.06	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12234	24697		3.95	2.0E-74	AA198181.1	EST_HUMAN	z096008.s1 Stragene muscle 937208 Homo sapiens cDNA clone IMAGE:829018 3'
52	12681	25509	1.89	1.0E-74	7877334	NT	Homo sapiens Mitochondrial-related kinase (MNK), mRNA
328	13129	25784	5.02	1.0E-74	AW816405.1	EST_HUMAN	Q14-S10234-181158-037-005 S10234 Homo sapiens cDNA
487	13272	25907	1.05	1.0E-74	6922628	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
483	13277	25912	13.6	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
587	13367	25995	1.47	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259), mRNA
765	13638	26197	1.81	1.0E-74	AB020940.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
878	13744	26408	2.27	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2223	14651	27690	4.39	1.0E-74	AB002056.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3136	15900	28545	3.65	1.0E-74	4758997	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3368	16125	28782	0.9	1.0E-74	AA238549.1	EST_HUMAN	z00c01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3368	16125	28783	0.9	1.0E-74	AA238549.1	EST_HUMAN	z00c01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3001	16951	29292	0.86	1.0E-74	4504119	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), mRNA
3001	16951	29293	0.86	1.0E-74	4504119	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), mRNA
3950	16700	29338	4.81	1.0E-74	AL163288.2	EST	Homo sapiens chromosome 21 segment HS21C088
4042	16787	29415	1.15	1.0E-74	BE083080.1	EST_HUMAN	RC2-B10642-270300-018-008 B10642 Homo sapiens cDNA
6905	16968	32390	1.86	1.0E-74	M88914.1	NT	Human neurofibromin (NF1) gene, complete cds
7528	20197	33291	1.16	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
7955	20950	33773	1.13	1.0E-74	BE649105.1	EST_HUMAN	HT070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458260 5'
7955	20950	33774	1.13	1.0E-74	BE649105.1	EST_HUMAN	HT070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458260 5'
8704	21596	34543	4.92	1.0E-74	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8733	21425	34571	0.86	1.0E-74	BF351951.1	EST_HUMAN	MF0-HT0559-230500-021-003 HT0559 Homo sapiens cDNA
10140	22768	36001	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10140	22768	36002	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10380	23026	36241	1.38	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11895	24458	37800	2.92	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
11895	24513		5.01	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12103	14951	27690	1.58	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P204, complete cds
12567	24897		1.53	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2650	15390		3.66	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 38 (DNMT3B) mRNA, complete cds
12254	24700		1.86	8.0E-75	AL153202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2319	19044	27781	1.47	6.0E-75	AB17416.1	EST_HUMAN	wk38c08.x1 NCL CGAP_P222 Homo sapiens cDNA clone IMAGE:2417854 3' similar to gbM14123_cds4
7898	20352	33468	0.61	5.0E-75	AA573446.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
7898	20352	33467	0.61	5.0E-75	AA573446.1	EST_HUMAN	IMAGE:1028633 3'
8806	21498	34943	0.94	5.0E-75	BE272325.1	EST_HUMAN	IMAGE:1028633 3'
9015	21705	34855	0.6	5.0E-75	AA132811.1	EST_HUMAN	601126008F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:288865 5'
9053	21782	34946	0.78	5.0E-75	BE961655.1	EST_HUMAN	z017c08.r1 Stratagene cdnt (8637204) Homo sapiens cDNA clone IMAGE:587174 5'
9053	21782	34947	0.78	5.0E-75	BE961655.1	EST_HUMAN	601346006F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9273	22027	35197	1.53	5.0E-76	BF890254.1	EST_HUMAN	602160010T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288738 3'
10134	22782	35683	2.39	5.0E-75	AF638023.1	EST_HUMAN	1831c12.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TRP07361 P97361
110	12831	25568	2.16	4.0E-75	BE081333.1	EST_HUMAN	HYPOTHETICAL 30.1 KD PROTEIN;
448	13232		1.02	4.0E-75	N38767.1	EST_HUMAN	QV1-BT0632-210200-078-e02 BT0632 Homo sapiens cDNA
1759	14501	27202	1.5	4.0E-75	AW897230.1	EST_HUMAN	y60008.r1 Soares melanocyte ZHBM Homo sapiens cDNA clone IMAGE:268055 5'
2853	15821	28286	4.89	4.0E-75	BE409484.1	EST_HUMAN	CMO-NN0057-150400-335-a11 NN0057 Homo sapiens cDNA
3402	16248	28902	0.94	4.0E-75	8922837	NT	601303806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
5442	18241	31128	0.96	4.0E-75	11417948	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
6175	18953	31028	0.56	4.0E-75	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6651	19421	32438	5.78	4.0E-75	5570457	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6651	19421	32438	2.26	4.0E-75	11417948	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (110KD) (EIF3S8), mRNA
10584	23270	39517	18.12	4.0E-75	7689305	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
982	13747	26409	3.72	3.0E-75	AF157623.1	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
983	13747	26409	2.41	3.0E-75	AF157623.1	NT	Homo sapiens HTRA active protease (PRSS11) gene, complete cds
1828	14567	27270	2.76	3.0E-75	AB011153.1	NT	Homo sapiens HTRA active protease (PRSS11) gene, complete cds
2105	14536	27570	1.11	3.0E-75	4607334	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
2422	15143	27876	5.86	3.0E-75	4759153	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3021	15787	28434	0.97	3.0E-75	AL103201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3184	15947	28597	1.32	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3345	16104	28757	0.75	3.0E-75	M72963.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3346	16104	28768	0.75	3.0E-75	M72963.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4147	16899	29621	3.27	3.0E-75	D87075.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4404	17141	29769	0.73	3.0E-75	7683421	NT	Homo sapiens KIAA0671 protein (KIAA0671), mRNA
5171	17980	30403	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5171	17980	30494	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6671	19588	32623	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6671	19588	32624	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7035	19727	32783	4.56	3.0E-75	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7035	19727	32784	4.56	3.0E-75	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7622	20183	33284	2.52	3.0E-75	4686332	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7522	20183	33285	2.52	3.0E-75	4686332	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8883	21574	34717	1.21	3.0E-75	11430904	NT	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNAIL), mRNA
9577	22230	36414	0.77	3.0E-75	11430922	NT	Homo sapiens Drosophila Katch like protein (DKELCHL), mRNA
10440	23086	36314	2.28	3.0E-75	11436430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
5587	18394		1.41	2.0E-75	AV734880.1	EST_HUMAN	AV734880 cDNA Homo sapiens cDNA clone cDABED02.5
8648	21340	34484	2.45	2.0E-75	A311783.1	EST_HUMAN	Q90160.21 NCL CGAP_X065 Homo sapiens cDNA clone IMAGE:728465 3' similar to TR:Q90389 Q90386
2078	14808	27539	1.12	1.0E-75	4508328	NT	POJEN/GENE;
2078	14808	27540	1.12	1.0E-75	4508328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2078	14808	27540	1.12	1.0E-75	4508328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2001	16026	27762	6.68	1.0E-75	AW108135.1	EST_HUMAN	XP00402.1 NCL CGAP_X065 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains PTPR7.1
2047	15713	28388	3.27	1.0E-75	X32221.1	NT	PTPR7 repetitive element;
8913	21006		4.27	1.0E-75	AA399270.1	EST_HUMAN	H.sapiens ERCC2 gene, exons 1 & 2 (partial)
9028	21995	35107	3.75	1.0E-75	BF313645.1	EST_HUMAN	287703.31 Soares, testis, NIH-T Homo sapiens cDNA clone IMAGE:728465 3' similar to gb:M13932.40S
9028	21995	35108	3.75	1.0E-75	BF313645.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
10797	23480		10.83	1.0E-75	AA064377.1	EST_HUMAN	801900234F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126878 5'
11033	23704	36972	2.56	1.0E-75	AF223991.1	NT	801900234F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126878 5'
							ac717603.11 Stratagene Lung (#637210) Homo sapiens cDNA clone IMAGE:588589 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11890	24444	37785	1.38	1.0E-76	AA417112.1	EST_HUMAN	z040503.11 Source: testis_NHT Homo sapiens cDNA clone IMAGE:730829 5'
12152	17912	30598	1.64	1.0E-75	BE884192.1	EST_HUMAN	901437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
43	12872	25493	1.24	9.0E-76	AI652648.1	EST_HUMAN	wk30b10.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:075235 075235 TRAP1;
43	12872	26494	1.24	9.0E-76	AI652648.1	EST_HUMAN	wk30b10.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:075235 075235 TRAP1;
9801	22452	35654	43.62	9.0E-76	M12637.1	NT	Human ferritin heavy subunit mRNA, complete cds
917	13684	26347	1.08	8.0E-76	4504374.1	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
917	13684	26348	1.06	8.0E-76	4504374.1	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2010	15676	28325	1	8.0E-76	7706724.1	NT	Homo sapiens mediator (Sur2) mRNA
6070	18958	31825	0.36	8.0E-76	11421442.1	NT	Homo sapiens LIM domain kinase 1 (LIMK1) mRNA
7388	20067	33149	1.26	8.0E-76	11435215.1	NT	Homo sapiens serine/threonine kinase 2 (STK2) mRNA
7465	20139	33231	0.86	8.0E-76	11419212.1	NT	Homo sapiens mitochondrial carrier family protein (LOC556972) mRNA
8166	20889	34027	0.87	8.0E-76	11410801.1	NT	Homo sapiens ALM-1 protein (LOC51161) mRNA
8895	21685	34635	0.85	8.0E-76	AB040704.1	NT	Homo sapiens mRNA for KIAA1644 protein, partial cds
10277	22925	36137	1.35	8.0E-76	M13792.1	NT	Homo sapiens adenine deaminase (ADA) gene, complete cds
10584	23280	36487	4.81	8.0E-76	10442821.1	NT	Homo sapiens baculoviral IAP repeat-containing 8 (BIRC8) mRNA
12491	24846		2	8.0E-76	11417862.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330) mRNA
759	13331	26191	1.41	7.0E-76	5010092.1	NT	Homo sapiens dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3288	18049	28997	2.97	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3294	18055	28704	7.55	7.0E-76	4505032.1	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
3330	16980	28743	0.93	7.0E-76	4757915.1	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2, translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4338	17077	29705	4.73	7.0E-76	4507184.1	NT	Homo sapiens sepiapterin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
4338	17077	29708	4.73	7.0E-76	4507184.1	NT	Homo sapiens sepiapterin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
1212	13682		31.63	6.0E-76	BE396293.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11442	23209	36440	3.78	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3568029 5'
1638	14671	27385	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1638	14671	27386	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27387	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5188	17966	30512	1.28	4.0E-76	BE788412.1	EST_HUMAN	601471725F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:3874470 5'
9923	22571	35768	6.42	4.0E-76	D81625.1	EST_HUMAN	HUMT78G01B Human fetal brain (Trifluorene) Homo sapiens cDNA clone GEN:178001 5'

Page 367 of 536

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9023	22571	35789	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujliwara) Homo sapiens cDNA clone GEN-78G01 5'
815	13383	28026	3.2	3.0E-76	BF516282.1	EST_HUMAN	U1-HBW1-anz-b-04-Q-U1 at NCL CGAP SubT Homo sapiens cDNA clone IMAGE:3083882 3'
815	13383	28027	3.2	3.0E-76	BF516282.1	EST_HUMAN	U1-HBW1-anz-b-04-Q-U1 at NCL CGAP SubT Homo sapiens cDNA clone IMAGE:3083882 3'
1504	14340	27026	3.28	3.0E-76	4503478	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1504	14340	27030	3.26	3.0E-76	4503478	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3422	18179	28828	4.96	3.0E-76	BF376880.1	EST_HUMAN	RC8-ST0300-180700-033-A03 ST0300 Homo sapiens cDNA
3422	18179	28828	4.96	3.0E-76	BF376880.1	EST_HUMAN	RC8-ST0300-180700-033-A03 ST0300 Homo sapiens cDNA
4058	16903	29434	1.07	3.0E-76	BE346863.1	EST_HUMAN	h07f12.1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:094886 094886 KIA0762 PROTEIN ;
5158	17891	37706	2.07	3.0E-76	Z41314.1	EST_HUMAN	HSC2QD042 normalized infant brain cDNA Homo sapiens cDNA clone IMAGE:592524 5' similar to z07307.1 Stragene pancreas (#837208) Homo sapiens cDNA clone IMAGE:592524 5' similar to gbl32978 MIXED LINEAGE KINASE 1 (HUMAN);
5946	18441	31354	1.09	3.0E-76	AA160611.1	EST_HUMAN	z07307.1 Stragene pancreas (#837208) Homo sapiens cDNA clone IMAGE:592524 5' similar to gbl32978 MIXED LINEAGE KINASE 1 (HUMAN);
6275	19048	32025	9.57	3.0E-76	AF285998.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
8050	20744	33877	0.88	3.0E-76	N42871.1	EST_HUMAN	Y20910.1 Scores melanocyte 2N6-HM Homo sapiens cDNA clone IMAGE:271842 5'
8818	22269	35458	3.34	3.0E-76	AW289353.1	EST_HUMAN	z04901.1 NCL CGAP_K011 Homo sapiens cDNA clone IMAGE:271842 5'
9041	22263	35488	0.99	3.0E-76	AA442306.1	EST_HUMAN	z064d11.1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:757481 5'
9041	22263	35487	0.99	3.0E-76	AA442306.1	EST_HUMAN	z064d11.1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:757481 5'
11876	25191	30812	1.83	3.0E-76	AW067084.1	EST_HUMAN	EST380058 MAGE resequences, MAGE Homo sapiens cDNA
11876	25398	30802	4.86	3.0E-76	AW966466.1	EST_HUMAN	EST380058 MAGE resequences, MAGE Homo sapiens cDNA
275	13082	25726	1.59	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25768	4.36	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25768	4.36	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
448	13234		1.19	2.0E-76	4567662	NT	Homo sapiens immunoglobulin (GD78A) binding protein 1 (IGBP1) mRNA
576	13358	25664	1.08	2.0E-76	4503944	NT	Homo sapiens glucagon (GGC) mRNA
1008	13768	26430	1	2.0E-76	4798053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1528	14273	28980	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1528	14273	28981	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1921	14658	27368	0.91	2.0E-76	AA253954.1	EST_HUMAN	z06011.1 Stragene testis brain S11 Homo sapiens cDNA clone IMAGE:701825 3'
2046	15014	26261	3.34	2.0E-76	P23286	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
3291	16052	28701	2.06	2.0E-76	AA445892.1	EST_HUMAN	z064e02.1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:780688 3' similar to SW:ITB5_HUMAN
3291	16052	28702	2.06	2.0E-76	AA445892.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
3291	16052	28702	2.06	2.0E-76	AA445892.1	EST_HUMAN	z064e02.1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:780688 3' similar to SW:ITB5_HUMAN
3291	16052	28702	2.06	2.0E-76	AA445892.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) HIR BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3488	18225	28878	0.97	2.0E-76	AB21149.1	EST_HUMAN	es83302.v5 Stratiene lung (8637210) Homo sapiens cDNA clone IMAGE:569163 5' similar to TR014591
4114	13082	25725	1.23	2.0E-76	D84285.1	NT	014591 SIMILARITY TO P22089
4895	17822	30240	6.21	2.0E-76	AV879818.1	EST_HUMAN	Human mRNA for possible protein TPRDII, complete cds
5056	17774	30390	1.49	2.0E-76	5031680	NT	QV9-OT0028-220300-132-511 OT0028 Homo sapiens cDNA
6228	18033		1.8	2.0E-76	AF127948.1	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5531	18329	31233	6.47	2.0E-76	AB020004.1	NT	Human gorilla effector receptor (GGO18) gene, partial cds
7354	20016	33094	0.75	2.0E-76	11428908	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7560	20230	33333	1.91	2.0E-76	11427410	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
10182	22830	39045	3.53	2.0E-76	11437211	NT	Homo sapiens TPCR88 protein (HSTPCR88P), mRNA
10839	23621	36763	3.58	2.0E-76	7549807	NT	Homo sapiens HIRA interacting protein 4 (dms-like) (HIRP4), mRNA
4205	17006	29636	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
4265	17006	29639	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5962	18164	30849	6.12	1.0E-76	BE796537.1	EST_HUMAN	601589398F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3844302 5'
6150	18827		0.72	1.0E-76	AA333207.1	EST_HUMAN	EST37301 Embryo, 3 week 7 Homo sapiens cDNA 5' end
6825	19486	32508	4.53	9.0E-77	BE889528.1	EST_HUMAN	601512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
12844	24941		1.4	9.0E-77	BE410364.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3693753 5'
182	12894	25633	0.92	8.0E-77	R63144.1	EST_HUMAN	X11102.11 Scores breast 3NH-Hst Homo sapiens cDNA clone IMAGE:187155 5' similar to
4486	17221	29849	1.09	8.0E-77	BF205181.1	EST_HUMAN	SP-ANKK_HUMAN C01484 ANKYRIN, BRAIN VARIANT 1;
5398	18168	30854	1.74	8.0E-77	4508230	NT	601589326F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
11360	24048	37351	1.81	8.0E-77	AA019770.1	EST_HUMAN	Homo sapiens proteasome (prosome, multicatalytic) 28S subunit, non-ATPase, 7 (Moz34 homolog) (PSMD7) mRNA
11360	24048	37352	1.91	8.0E-77	AA019770.1	EST_HUMAN	28S2902.1 Scores retina N25-4-HR Homo sapiens cDNA clone IMAGE:363578 5'
12820	24925	31008	4.02	8.0E-77	R00245.1	EST_HUMAN	28S2902.1 Scores retina N25-4-HR Homo sapiens cDNA clone IMAGE:363578 5'
1922	14859	27370	2.4	7.0E-77	AA625755.1	EST_HUMAN	ye69104.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
2411	15132	27868	2.62	7.0E-77	4505644	NT	MER10 repetitive element;
2411	15132	27869	2.52	7.0E-77	4505644	NT	2.01 g01.s1 Scores, beta, NHT Homo sapiens cDNA clone IMAGE:743992 3'
256	13064	25703	8.83	6.0E-77	4504800	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25KD) (POLR2E) mRNA
1534	14281	26989	3.22	6.0E-77	A1264068.1	EST_HUMAN	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25KD) (POLR2E) mRNA
1214	13984	26831	2.11	5.0E-77	AF041015.1	NT	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNA2) mRNA
1339	14087	26763	1.77	5.0E-77	4557250	NT	ge77h12.s1 Scores, fetal, lung, NHT, 19W Homo sapiens cDNA clone IMAGE:1745063 3'
2691	15400	28138	0.98	5.0E-77	AF162898.1	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
							Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
							Homo sapiens tyrosine-like kinase 1 (TLK1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2767	15472	28214	0.89	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3512	16268	28923	0.89	5.0E-77	8394918	NT	Homo sapiens ubiquitin specific protease 18 (USP18), mRNA
4655	17389	30022	2.47	5.0E-77	5031880	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
4655	17389	30023	2.47	5.0E-77	5031880	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
4884	17611	30231	2.96	5.0E-77	AL049863.1	EST_HUMAN	DKFZP434G1728.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434G1728.5
6868	19603	32642	0.57	5.0E-77	M13075.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7730	20393	33508	0.59	5.0E-77	8923319	NT	Homo sapiens hypothetical protein FLJ20343 (FLJ20343), mRNA
8266	20960	34098	1.26	5.0E-77	11428949	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8266	20960	34100	1.26	5.0E-77	11428949	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9460	22078	35249	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9460	22078	35250	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10388	23034	36248	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0250 gene, partial cds
10388	23034	36250	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0250 gene, partial cds
11794	24384	37716	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
11794	24384	37717	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
1965	14701	27417	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and marker transposase fusion gene (SETMAR) mRNA
1965	14701	27418	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and marker transposase fusion gene (SETMAR) mRNA
10186	22836	36050	0.79	3.0E-77	H65167.1	EST_HUMAN	YU84901.1 Wiermann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10186	22836	36051	0.79	3.0E-77	H65167.1	EST_HUMAN	YU84901.1 Wiermann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10785	23468	36709	3.58	3.0E-77	BF350917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1330	14079	28763	1.4	2.0E-77	AV784617.1	EST_HUMAN	AV784617 MDS Homo sapiens cDNA clone MDSBTF10 5'
1412	14160	28844	1.91	2.0E-77	AW697712.1	EST_HUMAN	RC3-BN0053-070200-011-h01 BN0053 Homo sapiens cDNA
2084	14816	27848	1.13	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2084	14827	27680	5.28	2.0E-77	7708315	NT	Homo sapiens CYP17 protein (LOC51634), mRNA
2802	15590	28053	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2802	15590	28054	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4012	16756	28386	1.99	2.0E-77	BE044310.1	EST_HUMAN	hca305.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4379	17116	28749	0.74	2.0E-77	AB13519.1	EST_HUMAN	O65245 F21E10.7 PROTEIN ;
4379	17116	28750	0.74	2.0E-77	AB13519.1	EST_HUMAN	O65245 F21E10.7 PROTEIN ;

Page 370 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4557	17292		0.96	2.0E-77	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
4717	17449	30082	1.59	2.0E-77	AA653025.1	EST_HUMAN	nc88g12.s1 NCI CGAP P-2 Homo sapiens cDNA clone IMAGE:1188838 similar to SW:RL29_HUMAN
5953	18652	31563	1.9	2.0E-77	BE286940.1	EST_HUMAN	P47914.60S RIBOSOMAL PROTEIN L26 (1) contains element MSR1 repetitive element;
6080	18659	31828	1.73	2.0E-77	BE787143.1	EST_HUMAN	601119852F1 NIH JMGCC 17 Homo sapiens cDNA clone IMAGE:3029439 5'
7074	18765	32829	15.45	2.0E-77	AB83003.1	EST_HUMAN	601476902F1 NIH JMGCC 88 Homo sapiens cDNA clone IMAGE:3878505 5'
8427	21120	34259	0.82	2.0E-77	AB302707.1	EST_HUMAN	a74800.x1 Barstead cdon HPLR87 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311
9428	22106	35280	5.05	2.0E-77	U60321.1	NT	Q13311 TAX1-BINDING PROTEIN TXBP161. (1);
9428	22106	35281	5.05	2.0E-77	U60321.1	NT	Q13311 TAX1-BINDING PROTEIN TXBP161. (1);
9695	22545	35738	0.47	2.0E-77	BF310349.1	EST_HUMAN	Q13311 TAX1-BINDING PROTEIN TXBP161. (1);
9695	22545	35739	0.47	2.0E-77	BF310349.1	EST_HUMAN	Q13311 TAX1-BINDING PROTEIN TXBP161. (1);
42	12870	25489	1.03	1.0E-77	AB033102.1	NT	Q13311 TAX1-BINDING PROTEIN TXBP161. (1);
42	12870	25490	1.03	1.0E-77	AB033102.1	NT	Q13311 TAX1-BINDING PROTEIN TXBP161. (1);
206	13074	25714	7.19	1.0E-77	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease notch-II, Alzheimer disease) (APP), mRNA
286	13074	25715	7.19	1.0E-77	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease notch-II, Alzheimer disease) (APP), mRNA
855	15554	26296	17.31	1.0E-77	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease notch-II, Alzheimer disease) (APP), mRNA
855	15554	26297	17.31	1.0E-77	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease notch-II, Alzheimer disease) (APP), mRNA
1912	14549	27980	0.9	1.0E-77	AW058116.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease notch-II, Alzheimer disease) (APP), mRNA
2445	15164	27902	1.32	1.0E-77	AB026024.1	NT	ww83a05.x1 Source: thymus NHF1h Homo sapiens cDNA clone IMAGE:2536160 3'
3040	16805	28451	1.72	1.0E-77	4503300	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4320	17059	29684	3.37	1.0E-77	7700298	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4488	17223	29687	19.41	1.0E-77	AJ220041.1	NT	Homo sapiens CG1-40 protein (LOC51628), mRNA
4603	17338	29687	2.29	1.0E-77	6552322	NT	Homo sapiens CG1-40 protein (LOC51628), mRNA
5010	17732	30337	1	1.0E-77	7661849	NT	Homo sapiens CG1-40 protein (LOC51628), mRNA
5010	17732	30338	1	1.0E-77	7661849	NT	Homo sapiens CG1-40 protein (LOC51628), mRNA
5839	18627	31561	2.45	1.0E-77	AF066944.1	NT	Homo sapiens CG1-40 protein (LOC51628), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5839	18827	31582	2.45	1.0E-77	AF069944.1	NT	Homo sapiens dynactin 1 (DCTN1), gene, exons 27 and 28
5956	19736	31597	1.4	1.0E-77	M25644.1	NT	Human von Willebrand factor gene, exon 20
6356	19126	32120	0.82	1.0E-77	4885182	NT	Homo sapiens diaphanous (Draophila, homolog) 1 (DIAPH1), mRNA
6983	19436	32450	21.7	1.0E-77	5881412	NT	Homo sapiens elastin (supravalvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7664	20234	33338	1.05	1.0E-77	11420159	NT	Homo sapiens cullin 1 (CUL1), mRNA
7663	20327	33437	0.89	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9166	21836	35000	0.82	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone GMP-PDE gene
9165	21835	35001	0.82	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone GMP-PDE gene
10421	23067	36288	3.1	1.0E-77	AB029396.1	NT	Homo sapiens hu-GIAT-P mRNA for glucocorticoid transferase, complete cds
10421	23067	36289	3.1	1.0E-77	AB029396.1	NT	Homo sapiens hu-GIAT-P mRNA for glucocorticoid transferase, complete cds
10449	23095	36329	2.55	9.0E-78	AW73302.1	EST_HUMAN	RC3-CT0254-280989-011-b05 CT0254 Homo sapiens cDNA
6354	19124	32117	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-a05 ET0023 Homo sapiens cDNA
6354	19124	32118	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-a05 ET0023 Homo sapiens cDNA
84	12970	25548	1.87	6.0E-78	AL118786.1	EST_HUMAN	AU118786 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
84	12910	25549	1.87	6.0E-78	AL118786.1	EST_HUMAN	AU118786 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
8465	19232		2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
212	13024	25683	0.72	5.0E-78	11422489	NT	Homo sapiens hypothetical protein FLJ11319 (FLJ11319), mRNA
2567	15281	28019	5.53	5.0E-78	AW673424.1	EST_HUMAN	bc04903.9 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP:Y4886A.6 CE22121
3380	16139	28797	3.81	5.0E-78	M65598.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5327	18130	30789	2.33	5.0E-78	AF038536.1	NT	Homo sapiens Beal's muscular dystrophy related protein mRNA, partial cds
5488	18287	31183	11.12	5.0E-78	11416898	NT	Homo sapiens transforming growth factor, beta-induced, 38kd (TGFB1), mRNA
7054	19745	32808	2.23	5.0E-78	AW983120.1	EST_HUMAN	EST1365100 MAOE neocytosine, MAGB Homo sapiens cDNA
8981	21671	34821	6.78	5.0E-78	U60889.1	NT	Human hypoxanthine phosphoribosyl transferase (hprt) gene, exon 7
8982	21672	34822	3.31	5.0E-78	BE980836.1	EST_HUMAN	807649061 F111 MGC 82 Homo sapiens cDNA clone IMAGE:3831887 5'
1115	13872	26531	1.07	4.0E-78	AL043314.2	EST_HUMAN	DKFZp434N0323_11 434 (synonym: hsc3) Homo sapiens cDNA clone DKFZp434N0323 5'
1508	14254	26940	1.78	4.0E-78	AL355941.1	NT	Novel human gene mapping to chromosome 22
1644	14390	27079	1.06	4.0E-78	AB85094.1	EST_HUMAN	W97b12.1 NCI CGAP_K0d11 Homo sapiens cDNA clone IMAGE:2495615 3' similar to SW:WAP_PIG
2316	15041	27778	2.08	4.0E-78	AF107405.1	NT	O48656 WHEIC ACIDIC PROTEIN PRECURSOR
4288	17027	29652	1.73	4.0E-78	7658878	NT	Homo sapiens pre-mRNA splicing factor (SFRS5) mRNA, complete cds
4722	17454	30088	2.81	4.0E-78	4505906	NT	Homo sapiens synactin (LOC30816), mRNA
4722	17454	30089	2.81	4.0E-78	4505906	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5681	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5681	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7390	20069	33148	0.58	4.0E-78	4508736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6K(B1)) mRNA
8752	21444	34591	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
8752	21444	34592	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
8268	22022	35182	0.6	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10342	22989	36208	1.96	4.0E-78	11500151	NT	Homo sapiens hypofunctional C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10342	22989	36207	1.96	4.0E-78	11500151	NT	Homo sapiens hypofunctional C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11398	24002	37305	5.18	4.0E-78	AF108148.1	NT	Homo sapiens e-Cadherin (CD32) mRNA, complete cds
11547	24146	37458	2.15	4.0E-78	X05944.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12517	24866	31016	3.57	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
157	12972	25610	1.36	3.0E-78	AF066001.1	NT	Homo sapiens eIF1 gene, complete cds
157	12972	25611	1.36	3.0E-78	AF066001.1	NT	Homo sapiens eIF1 gene, complete cds
3746	16460	29181	0.08	3.0E-78	AF066001.1	EST_HUMAN	Homo sapiens eIF1 gene, complete cds
3706	16548	29181	0.72	3.0E-78	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
4084	16548	29181	0.96	3.0E-78	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
5094	17913	30430	0.93	3.0E-78	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
10186	22634	35632	5.14	3.0E-78	BE144788.1	EST_HUMAN	CHD-HT0180-041009-046-c07 HT0180 Homo sapiens cDNA
10802	23582	35632	1.97	3.0E-78	BE160318.1	EST_HUMAN	QV0-HT0367-160200-114-g09 HT0367 Homo sapiens cDNA
3119	15984	31181	2.17	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
3065	16743	33126	1.87	2.0E-78	AA311872.1	EST_HUMAN	EST182583 Jurkat T cells VI Homo sapiens cDNA 5' end
7367	20047	33126	1.54	2.0E-78	AW402306.1	EST_HUMAN	UHFH-BKG-eel-g-10-U1r1 NIH MGCC 36 Homo sapiens cDNA clone IMAGE:3054139 5'
7367	20047	33127	1.54	2.0E-78	AW402306.1	EST_HUMAN	UHFH-BKG-eel-g-10-U1r1 NIH MGCC 36 Homo sapiens cDNA clone IMAGE:3054139 5'
7631	20267	33405	3.98	2.0E-78	BF683600.1	EST_HUMAN	602186529F1 NIH MGCC 49 Homo sapiens cDNA clone IMAGE:4285589 5'
7940	20335	33762	2.33	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBWF09 5'
8351	21044	34180	1.4	2.0E-78	AI557909.1	EST_HUMAN	P2.1_16 B07.1 tumor2 Homo sapiens cDNA 3'
8351	21044	34181	1.4	2.0E-78	AI557909.1	EST_HUMAN	P2.1_16 B07.1 tumor2 Homo sapiens cDNA 3'
11017	23686	36952	3.27	2.0E-78	AI197837.1	EST_HUMAN	q150035L1 NCI_C638 Homo sapiens cDNA clone IMAGE:1859961 3' similar to WP.R80.1
11088	23738	37012	3.80	2.0E-78	N68951.1	EST_HUMAN	2448712.1 Sources fetal liver spleen INFILS Homo sapiens cDNA clone IMAGE:286823 3'
4123	18895	28491	3.07	1.0E-78	4507088	NT	Homo sapiens synapjanin-associated protein, 28kD (SNAP25) mRNA
4123	18895	28492	3.07	1.0E-78	4507088	NT	Homo sapiens synapjanin-associated protein, 28kD (SNAP25) mRNA
5222	18029	30655	2.63	1.0E-78	11417304	NT	Homo sapiens GAP-like protein (LOC61308), mRNA
6857	17934	30570	0.76	1.0E-78	AV049898.1	EST_HUMAN	AV049898 GLO3 Homo sapiens cDNA clone GLO3MCO1 3'
7736	20401	33517	0.65	1.0E-78	AU122163.1	EST_HUMAN	AU122163 MAMMA1 Homo sapiens cDNA clone MAMMA1001785 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8059	20753		3.28	1.0E-78	U52373.1	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
12045	24595	31117	1.39	1.0E-78	11430400	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12477	26244	30718	1.55	1.0E-78	AF050919.1	EST_HUMAN	wc20608.xt NCL CGAP K011 Homo sapiens cDNA clone IMAGE:2288615.3'
4650	17384	30016	4.05	1.0E-78	11526891	NT	Homo sapiens peptide YY (PYY), mRNA
4811	17542	30106	8.05	9.0E-79	BE000837.1	EST_HUMAN	RC2-BN0074-080300-014-c12 BN0074 Homo sapiens cDNA
5348	18149	30828	16.87	9.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
8248	19022	31984	2.38	9.0E-79	5454148	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 5 (homologous to yeast UBC4/5) (UBE2E3) mRNA
7251	25108		0.98	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7473	20146	33239	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS186L15.1), mRNA
7473	20148	33240	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS186L15.1), mRNA
8244	20638	34074	0.49	9.0E-79	11417280	NT	Homo sapiens thymidyl-RNA synthetase (TARS), mRNA
8244	20638	34075	0.49	9.0E-79	11417280	NT	Homo sapiens thymidyl-RNA synthetase (TARS), mRNA
8681	21852	34802	5.1	9.0E-79	J02853.1	NT	Homo sapiens coactin kinase II alpha subunit mRNA, complete cds
8681	21852	34803	5.1	9.0E-79	J02853.1	NT	Homo sapiens coactin kinase II alpha subunit mRNA, complete cds
9280	22034	35206	0.58	9.0E-79	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10263	22911	36121	0.82	9.0E-79	11438643	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10318	22985	36182	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216), mRNA, complete cds
10318	22985	36183	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216), mRNA, complete cds
11001	23674	36930	3.13	9.0E-79	AY006273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uer1A mRNA, complete cds
11407	24098	37410	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
11407	24098	37411	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
3725	18478	20115	0.91	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11906	17910	30565	1.82	8.0E-79	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
3247	19009	28980	28.39	7.0E-79	BE019848.1	EST_HUMAN	60147276011 NIH_MGC 85 Homo sapiens cDNA clone IMAGE:3875657.3'
11898	24468		4.32	6.0E-79	AA068829.1	EST_HUMAN	384604.s1 Scores, fetal_liver, INFLS_S1 Homo sapiens cDNA clone IMAGE:462558.3' similar to
11478	24079	37360	2.52	5.0E-79	AL183282.2	NT	TRC19408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT
3173	15936		1.49	4.0E-79	8622325	NT	Homo sapiens chromosome 21 segment HS21C082
305	13109	25749	1.28	3.0E-79	AF114488.1	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
957	13722	26388	3.85	3.0E-79	AF232708.1	NT	Homo sapiens intracellular short isoform (ITSN) mRNA, complete cds
3065	15860	28501	1.51	3.0E-79	U09410.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein (Ch) gene, complete cds
5277	18082	30738	5.24	3.0E-79	AF110322.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5637	18432	31345	1.24	3.0E-79	AB020689.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
							Homo sapiens mRNA for KIAA0852 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5662	19457	31371	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC 88 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	19457	31372	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC 88 Homo sapiens cDNA clone IMAGE:3884554 5'
5682	18476	31392	3.56	3.0E-79	11420770	NT	Homo sapiens nectin 1 (NTN1), mRNA
5682	18475	31393	3.56	3.0E-79	11420770	NT	Homo sapiens nectin 1 (NTN1), mRNA
5646	19408	32422	0.67	3.0E-79	BE258893.1	EST_HUMAN	60112056F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3352885 5'
5690	19442	32457	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
5690	19442	32458	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7726	20389	33903	0.76	3.0E-79	6012456	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
8064	20768	33887	1.81	3.0E-79	AF246273.1	NT	Homo sapiens tetrahydropeptide repeat domain 3 (TTG3), mRNA
8003	21970	35144	1.33	3.0E-79	10635036	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10245	22893		1.24	3.0E-79	AV068115.1	EST_HUMAN	AV68115 GK Homo sapiens cDNA clone GKCAHE11 5'
10768	23452	36904	1.62	3.0E-79	AF246273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10768	23452	36905	1.62	3.0E-79	AF246273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
281	13088		0.99	2.0E-79	H83120.1	EST_HUMAN	y-48f03.1 Scores field liver spleen INFLS Homo sapiens cDNA clone IMAGE:208541 3'
619	13398	26033	1.6	2.0E-79	BE378926.1	EST_HUMAN	601159415F2 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:3811107 5'
607	13674	26339	2.28	2.0E-79	4137841	NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
1012	13772		2.09	2.0E-79	AI523747.1	EST_HUMAN	618807.XT NCQ_CGAP Pr28 Homo sapiens cDNA clone IMAGE:2118085 3'
1781	14522	27226	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1781	14522	27227	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27607	5.93	2.0E-79	4585983	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2144	14874	27608	5.93	2.0E-79	4585983	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2180	14916	27852	1.07	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2721	15426	28106	1.09	2.0E-79	AB023154.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
3883	16643	29283	0.83	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLCA4 (CLCA) mRNA, complete cds
4144	18896	29517	1.09	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
5885	18382		1.22	2.0E-79	AA312223.1	EST_HUMAN	EST182928 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, coiled 80303.15
5940	18435	31348	0.8	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XTR), mRNA
6149	18928	31896	1.14	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
6984	17041	30577	0.89	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7067	19758	32822	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7067	19758	32823	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7869	20904	33821	1.08	2.0E-79	4508442	NT	Homo sapiens retinoldehydrogenase-like 1 (p107) (RBL1) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8415	21108	34247	2.25	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
8664	21356	34503	0.58	2.0E-79	8823248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8864	21356	34504	0.58	2.0E-79	8823248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8802	21563	34734	1.05	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M6-9 (H. sapiens) (LOC80681), mRNA
9602	22840	39860	1.44	2.0E-79	S72890.1	NT	H4(D10S1170) putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
9602	22840	39861	1.44	2.0E-79	S72890.1	NT	H4(D10S1170) putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10698	23369	36627	12.34	2.0E-79	U07819.1	NT	Human catenin 1 precursor (CNTN1) mRNA, complete cds
10698	23632	36880	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
10698	23632	36881	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
11836	17008	30564	2.16	2.0E-79	7662357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12018	24548	31108	5.19	2.0E-79	AB020640.1	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12238	24690	31075	2.89	2.0E-79	11418322	NT	MRO-HN0087-260600-017-510 NN0087 Homo sapiens cDNA
8462	25091	37607	3.76	1.0E-79	BF368071.1	EST_HUMAN	801311517F1 NIH_MGC 44 Homo sapiens cDNA
8143	20637	33968	0.78	1.0E-79	BE394211.1	EST_HUMAN	QV2-HT0640-120600-368-406 HT0640 Homo sapiens cDNA
11623	24220	37543	2.05	1.0E-79	BF087405.1	EST_HUMAN	ar79a04.x1 Barbed colon HPLRB7 Homo sapiens cDNA
12047	25333		1.8	1.0E-79	A1460115.1	EST_HUMAN	ar23a05.s1 Soares, testis NHT Homo sapiens cDNA
3143	15607	28551	2.35	9.0E-80	AA725848.1	EST_HUMAN	ar23a05.s1 Soares, testis NHT Homo sapiens cDNA
3143	15607	28552	2.35	9.0E-80	AA725848.1	EST_HUMAN	ar23a05.s1 Soares, testis NHT Homo sapiens cDNA
9812	22561	35757	1.14	9.0E-80	BE798603.1	EST_HUMAN	801581652F1 NIH_MGC 7 Homo sapiens cDNA
11245	23007	37109	8.86	9.0E-80	11433624	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
11245	23007	37200	8.06	9.0E-80	11433624	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
3889	16342		1.31	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7504	20175	33268	3.07	8.0E-80	11422647	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7504	20175	33269	3.07	8.0E-80	11422647	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
6302	21969	35142	1.13	8.0E-80	6005621	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
6302	21969	35143	1.13	8.0E-80	6005621	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
880	13649	26318	1.12	6.0E-80	A422197.1	EST_HUMAN	t59402.x1 NCL CGAP_Bn23 Homo sapiens cDNA
1638	14384	27071	2.22	6.0E-80	U84988.1	NT	Q16785 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	15693	29620	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4252	15693	29621	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5712	18505	31427	1.79	6.0E-80	11421482	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
5684	18766	31729	3.37	6.0E-80	AJ404468.1	NT	Homo sapiens mRNA for dyx19 heavy chain (DNAH9 gene)
6155	18613	31082	4.98	6.0E-80	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6179	18656		1.17	6.0E-80	7662393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6230	19004	31980	0.98	6.0E-80	M18533.1	NT	Homo sapiens dyx19 protein (DMD) mRNA, complete cds
8723	21415	34558	3.22	6.0E-80	11526464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8723	21415	34559	3.22	6.0E-80	11526464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8917	21608	34761	1.61	6.0E-80	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21G101
9266	21938	35113	0.83	6.0E-80	AF101495.1	NT	Homo sapiens HSPC746 mRNA, complete cds
9761	22412	35619	1.48	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
10651	23541	36788	2.83	6.0E-80	11427368	NT	Homo sapiens Cyt19 mRNA, complete cds
11187	23852	37138	26.58	6.0E-80	AF228790.1	NT	Homo sapiens bradykinin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11702	24297	37623	1.59	6.0E-80	U76560.1	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11796	24347	37677	1.5	6.0E-80	AF102285.1	NT	Homo sapiens N-acetylglucosamine-6-phosphate mutase mRNA, complete cds
11802	24392	37725	2.28	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11802	24392	37726	2.28	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11906	13649	26318	1.88	6.0E-80	AI422197.1	EST_HUMAN	U85402x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE-2103450 3' similar to SW-NUEM_HUMAN Q19796 NADH-LIBQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR;
12028	26217		2.42	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12219	24679		5.78	6.0E-80	AB026900.1	NT	Homo sapiens GST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12707	25341		1.94	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
12804	25051	30959	1.35	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13354	29683	0.74	5.0E-80	4505228	NT	Homo sapiens proscapsin (proscapsin, macrophage) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
815	13596	26263	1.97	6.0E-80	AF108503.1	NT	Homo sapiens serine-threonine protein kinase (MINK) mRNA, complete cds
815	13596	26264	1.97	6.0E-80	AF108503.1	NT	Homo sapiens serine-threonine protein kinase (MINK) mRNA, complete cds
1100	13620		2.39	5.0E-80	X91647.1	NT	Homo sapiens nck1 gene (exon 12)
1439	14196		2.26	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C068
2361	15063	27621	1.99	6.0E-80	U80355.1	NT	Human (3) hit protein homolog mRNA, complete cds
2431	15152	27898	1.65	6.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2797	15502	28242	1.67	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4018	16764	28353	1.37	5.0E-80	AB018038.1	NT	Homo sapiens HMT-1 mRNA for beta-1.4 mannosyltransferase, complete cds
4018	16764	28354	1.37	5.0E-80	AB018038.1	NT	Homo sapiens HMT-1 mRNA for beta-1.4 mannosyltransferase, complete cds
4900	17627	30244	1.28	5.0E-80	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
8255	20946	34066	1.04	5.0E-80	8910283	NT	Homo sapiens chromosome 21 segment HS21C088
9157	21888	35056	8.77	4.0E-80	F25915.1	EST_HUMAN	Mus musculus keratin complex 2, gene 5g (K12-5g), mRNA
2111	13023		8.98	3.0E-80	AL163210.2	EST_HUMAN	HS21C13155-Hu3 Homo sapiens cDNA clone s4000043F03
4661	17395	30030	1.7	3.0E-80	BF085009.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
4950	17580		3.77	3.0E-80	BE817465.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GND018 Homo sapiens cDNA
							QV4-BN0263-040600-241-g10 BN0263 Homo sapiens cDNA
							cc23a12.x1 Soares NSF_F8_PW_OT_PA_P_ST Homo sapiens cDNA clone IMAGE:1567054 3' similar to
6730	18522	31443	2.88	3.0E-80	A081675.1	EST_HUMAN	TRC056790 C06790 PIG-L
1790	14530	27236	5.08	2.0E-80	R35321.1	EST_HUMAN	yg5e08.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:35000 5'
1853	14591	27307	1.19	2.0E-80	A144821.1	EST_HUMAN	RET4B7 subcloned retina cDNA library Homo sapiens cDNA clone RET4B7
2049	14782	27500	5.82	2.0E-80	AL443116.2	EST_HUMAN	DKFZp-34D1323_r1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp-34D1323 5'
6708	19233	32667	0.83	2.0E-80	AA582952.1	EST_HUMAN	rn80d01.st NCI_CGAP_C68 Homo sapiens cDNA clone IMAGE:1060177 3'
6813	19474	32406	1.71	2.0E-80	11421630	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7151	19838	32808	1.46	2.0E-80	T75215.1	EST_HUMAN	yg08f12.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to
9057	21746	34905	1.41	2.0E-80	AW564270.1	EST_HUMAN	SP-K1CR_XENLA P08902 KERATIN, TYPE I CYTOSKELETAL ENDO B;
9668	22320	35516	1	2.0E-80	AJ007379.1	NT	ES1376343 IMAGE resequencing, MAGH Homo sapiens cDNA
10780	23463	36705	4.49	2.0E-80	AA303362.1	EST_HUMAN	Homo sapiens GGT gene, exon 6
331	13132		2.25	1.0E-80	AL163303.2	NT	z70712.r1 Soares, testis NIH-Homo sapiens cDNA clone IMAGE:727727 5' similar to TR-G191315
782	13554	28215	1.37	1.0E-80	AF231920.1	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN, ;
							Homo sapiens chromosome 21 segment HS21C103
							Homo sapiens chromosome 21 unknown mRNA
1947	14692		2.44	1.0E-80	A1732656.1	EST_HUMAN	nm011f12.x1 NCI_CGAP_C68 Homo sapiens cDNA clone IMAGE:1078495 3' similar to contains OFR.H OFR
							repetitive element;
5000	17779	30397	0.99	1.0E-80	4557610	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
8244	18090		6.43	1.0E-80	BE386615.1	EST_HUMAN	G01274300F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
5881	18667	31808	6.58	1.0E-80	L10347.1	NT	Human pro-alpha1 type II collagen (COL2A1) gene, exons 1-5A, complete cds
							Homo sapiens nuclear dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial
6400	19173	32174	1.36	1.0E-80	5174540	NT	protein, mRNA
7108	19794	32850	0.95	1.0E-80	AJ224172.1	NT	Homo sapiens mRNA for lipophilin B
7472	20145	33237	2.53	1.0E-80	AB46731.1	EST_HUMAN	wq25605.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:2472286 3'
7472	20145	33238	2.53	1.0E-80	AB46731.1	EST_HUMAN	wq25605.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:2472286 3'

Page 378 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8130	20824	33980	2.84	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21283	94495	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21283	34436	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9185	21855	35019	1.21	1.0E-80	AF245218.1	NT	Homo sapiens probable membrane binding C-type lectin DC-SIGNR, complete cds
9185	21855	35020	1.21	1.0E-80	AF245218.1	NT	Homo sapiens probable membrane binding C-type lectin DC-SIGNR, complete cds
10325	22972	35192	0.86	1.0E-80	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10548	23244	36478	5.25	1.0E-80	11841276	NT	Homo sapiens similar to rat myomesin (LOC84182), mRNA
12288	24718	31051	1.57	1.0E-80	11841276	NT	Homo sapiens similar to rat myomesin (LOC84182), mRNA
12498	24853	31034	3.08	1.0E-80	AB020640.1	NT	Homo sapiens methionine (disrupted in balanced translocation) 1 (MN1), mRNA
10583	23278	36515	1.46	8.0E-81	A1251752.1	EST_HUMAN	h980g05.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
10583	23278	36516	1.46	8.0E-81	A1251752.1	EST_HUMAN	h980g05.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
11102	23772	37048	8.46	8.0E-81	BE394525.1	EST_HUMAN	z691c08.x5 Scores_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:332070 5'
11102	19839	32909	3.58	7.0E-81	A1822115.1	EST_HUMAN	z691c08.x5 Scores_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:288918 3'
4354	17092	29726	5.26	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4354	17092	29727	5.26	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
6201	18009	30630	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5201	18009	30631	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7489	20161	33263	0.97	6.0E-81	AF038990.1	EST_HUMAN	Homo sapiens chromosome 1p33-p34 beta-1,4-galactosyltransferase mRNA, complete cds
9136	21824	34689	1.36	6.0E-81	AA390017.1	EST_HUMAN	ES1760129 Fetal Lung II Homo sapiens cDNA 5' end
11800	24390	37723	1.61	6.0E-81	BE560082.1	EST_HUMAN	601312522F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3655284 5'
12430	24903	31041	2.29	6.0E-81	BF670022.1	EST_HUMAN	602163986F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12430	24903	31042	2.29	6.0E-81	BF670022.1	EST_HUMAN	602163986F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2214	14942	27882	2.8	5.0E-81	BE268042.1	EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8311	21005	34143	1.83	6.0E-81	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8311	21005	34144	1.83	6.0E-81	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35383	0.77	5.0E-81	M00316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9548	22201	35384	0.77	5.0E-81	M00316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11677	24176	37491	2.23	5.0E-81	9509534	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
11839	24423	37784	1.3	5.0E-81	11626341	NT	Homo sapiens armistice repeat gene deletion in velocardiofacial syndrome (ARVCF), mRNA
686	13461	26109	2.03	4.0E-81	A1521435.1	EST_HUMAN	trider12x1 NCJ_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR-Q85560 Q85560
1815	14555	27270	1.31	4.0E-81	AW779812.1	EST_HUMAN	h98402.x1 NCL_CGAP_Cor14 Homo sapiens cDNA clone IMAGE:3035607 3' similar to SW-COPG_BOVIN P3620 COATOMER GAMMA SUBUNIT

Page 379 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3168	15931	28580	3.58	4.0E-81	AB037768.1	NT	Homo sapiens mRNA for KIAA1346 protein, partial cds
3619	16372	28013	0.98	4.0E-81	AW004608.1	EST_HUMAN	ws80h03.x1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:2805269 3' similar to TR:043815 O43815 STRATIN.
4139	16881	28509	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4139	16881	28510	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4360	17088	28733	1.33	4.0E-81	8923206	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7177	19983	32934	1.11	4.0E-81	4757868	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2) mRNA
7286	19982	33038	0.57	4.0E-81	11425544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8185	20879	34018	3.59	4.0E-81	X08689.1	NT	Human mRNA for amyloid A(4751) protein
8443	21135	34271	3.43	4.0E-81	U20187.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8443	21135	34272	3.43	4.0E-81	U20187.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9126	21614	34680	6.1	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10001	22849	35861	1.53	4.0E-81	11425281	NT	Homo sapiens ligase 1, DNA, ATP-dependent (LIG1), mRNA
10070	22718	36835	0.71	4.0E-81	11438085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10070	22718	36836	0.71	4.0E-81	11438086	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11140	23907	37086	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11140	23907	37087	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11926	25280	30731	3.03	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11926	25280	30732	3.03	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31030	1.83	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12463	24831	31031	1.83	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12597	24911	31004	4.82	4.0E-81	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1244	13963	28658	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1244	13963	28659	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2371	15063	27832	1.23	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A), complete cds
2989	15755	28400	5.83	3.0E-81	4506280	NT	Homo sapiens plectrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2989	15755	28401	5.83	3.0E-81	4506280	NT	Homo sapiens plectrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2837	15905	28254	2.97	2.0E-81	BE784936.1	EST_HUMAN	801474072F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3877121 5'
2837	15905	28255	2.97	2.0E-81	BE784936.1	EST_HUMAN	801474072F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3877121 5'
3755	16507	28144	0.71	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2852384 3'
7857	20552	33978	0.6	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC56588), mRNA

Page 380 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1402	14149	26826	1.13	1.0E-81	W26539.1	EST_HUMAN	3373 Human retina cDNA randomly primed sublibrary/Homo sapiens cDNA
3044	16397	28037	1.07	1.0E-81	AW960958.1	EST_HUMAN	EST372729 IMAGE resources, MAGF Homo sapiens cDNA
4479	17214	29839	3.56	1.0E-81	AA040370.1	EST_HUMAN	245509.r1 Soares_pregnant_uterus_NIH-FU Homo sapiens cDNA clone IMAGE:465825 5' similar to
4800	17335	29804	8.99	1.0E-81	BE047986.1	EST_HUMAN	PIR.S52437 S52437 CDP-diacylglycerol synthase - full fly;
5157	17860	37795	4.06	1.0E-81	U87828.1	NT	54564.y1 NC1 CGAP Brn52 Homo sapiens cDNA clone IMAGE:2281526 5'
5269	18075	30704	4.1	1.0E-81	11432068	NT	Human acetylcholinesterase (AChE) gene, exon 3
5269	18075	30705	4.1	1.0E-81	11432068	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5415	18214	30922	0.85	1.0E-81	AA255590.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5508	18365	31273	3.47	1.0E-81	U52351.1	NT	2765008.r1 Soares_NIH-MPL-S1 Homo sapiens cDNA clone IMAGE:862475 5' similar to SW.PRI2_HUMAN
5508	18365	31274	3.47	1.0E-81	U52351.1	NT	P46443 DNA PRIMASE 58 KD SUBUNIT ;
6054	18834	31796	1.81	1.0E-81	BF074841.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurexophilin (CTNND2) mRNA, partial cds
6453	19221	32218	0.59	1.0E-81	11420965	NT	Homo sapiens arm-repeat protein NPRAP/neurexophilin (CTNND2) mRNA, partial cds
6453	19221	32219	0.59	1.0E-81	11420965	NT	802137884F1 NIH_JMGC 83 Homo sapiens cDNA clone IMAGE:4274535 5'
6639	19401	32416	0.87	1.0E-81	AJ133269.1	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C), mRNA
7069	20333	33444	8.45	1.0E-81	BE958278.1	EST_HUMAN	Homo sapiens caveolin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
9076	22528	35523	5.09	1.0E-81	BE958278.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
9076	22528	35524	5.09	1.0E-81	BE958278.1	EST_HUMAN	601845051F1 NIH_JMGC 58 Homo sapiens cDNA clone IMAGE:3630228 5'
9088	22519	35715	5.06	1.0E-81	BE964397.1	EST_HUMAN	601845051F1 NIH_JMGC 58 Homo sapiens cDNA clone IMAGE:3630228 5'
10003	22851	35883	1.59	1.0E-81	AA030794.1	EST_HUMAN	601343180F1 NIH_JMGC 53 Homo sapiens cDNA clone IMAGE:3665483 5'
10003	22853	35885	3.27	1.0E-81	BE744545.1	EST_HUMAN	act4406.a1 Shalogeno HeLa cell c3 927216 Homo sapiens cDNA clone IMAGE:556427 3' similar to
10005	22853	35886	3.27	1.0E-81	BE744545.1	EST_HUMAN	SW.YB36_YEAST P38128 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION ;
10405	23061	36289	1.59	1.0E-81	AW897550.1	EST_HUMAN	601577339F1 NIH_JMGC 9 Homo sapiens cDNA clone IMAGE:3838280 5'
10860	23540	36767	2.9	1.0E-81	8929596	NT	601577339F1 NIH_JMGC 9 Homo sapiens cDNA clone IMAGE:3838280 5'
11029	23700	36988	1.97	1.0E-81	AW844988.1	EST_HUMAN	CM3-NN0058-140400-147412 NN0058 Homo sapiens cDNA
11029	23700	36987	1.97	1.0E-81	AW844988.1	EST_HUMAN	MR0-CT0006-250588-019 CT0006 Homo sapiens cDNA
11240	16397	29037	1.72	1.0E-81	AW960958.1	EST_HUMAN	MR0-CT0006-250588-019 CT0006 Homo sapiens cDNA
11507	24108	37421	1.90	1.0E-81	BF204253.1	EST_HUMAN	EST372729 IMAGE resources, MAGF Homo sapiens cDNA
12132	24622	31093	4.13	1.0E-81	11418158	NT	601863714F1 NIH_JMGC 17 Homo sapiens cDNA clone IMAGE:4110459 5'
12	12639	25452	3.0	8.0E-82	AF161406.1	NT	Homo sapiens prolactin (similar to prolactin B mRNA editing protein) (D7J42C18.2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
104	12839	25452	2.45	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
257	13065	25704	1.1	8.0E-82	U06988.1	NT	Human CRFB4 gene, partial cds
795	13567	26227	2.83	8.0E-82	U06988.1	NT	Human CRFB4 gene, partial cds
867	13936	26306	0.84	8.0E-82	U06988.1	NT	Human CRFB4 gene, partial cds
1474	14221	26907	1.42	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1654	14400	27089	1.43	8.0E-82	6715801	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4219	16980	29585	0.9	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20481 (FLJ20481), mRNA
1433	14180	28216	1.7	7.0E-82	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE380288 5'
11759	24350	37882	1.71	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
4104	16947	29473	0.71	5.0E-82	AA615512.1	EST_HUMAN	ae689d04.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE386342 3'
1066	14412	27103	0.8	4.0E-82	AF081484.1	NT	m68e11.s1 NCI CGAP_O68 Homo sapiens cDNA clone IMAGE3920186 3'
5409	18208	30915	0.8	4.0E-82	BF351861.1	EST_HUMAN	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5409	18208	30916	0.8	4.0E-82	BF351861.1	EST_HUMAN	QV2-HT0540-126900-362-f08 HT0540 Homo sapiens cDNA
5671	18406	31381	0.85	4.0E-82	M28833.1	NT	Human von Willebrand factor gene, exon 8
11716	24310	37653	11.61	4.0E-82	A887300.1	EST_HUMAN	wp75e00.x1 NCI CGAP_Bm28 Homo sapiens cDNA clone IMAGE2467624 3' similar to TR-O75276
12374	24773		5.05	4.0E-82	AF029701.2	NT	O75276 PKD1;
271	13070	26721	21.65	3.0E-82	4502106	NT	Homo sapiens presenilin-1 gene, exons 1 and 2
687	13452	26110	3.11	3.0E-82	BE005705.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease resistant, Alzheimer disease) (APP), mRNA
770	13542	26203	5.7	3.0E-82	5174702	NT	RC2-BN0120-010400-013-002 BN0120 Homo sapiens cDNA
850	13620	26290	10.65	3.0E-82	4502106	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1036	13769	26758	18.56	3.0E-82	AA725948.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease resistant, Alzheimer disease) (APP), mRNA
1333	14082	26758	1.26	3.0E-82	AW875073.1	EST_HUMAN	ac23e05.s1 Source: testis, NHT Homo sapiens cDNA clone 1343648 3'
1450	14197	26881	3.44	3.0E-82	AL165285.2	NT	RC3-P0001-190100-021-B02 P0001 Homo sapiens cDNA
1694	14031	27341	1.91	3.0E-82	BE813292.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
2000	14735	27459	1.83	3.0E-82	4501922	NT	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
3206	16028		2.82	3.0E-82	5453911	NT	Homo sapiens adenylyl cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP-IR1) mRNA
							Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA

Page 382 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4864	17583	30216	0.88	3.0E-82	AA136879.1	EST_HUMAN	z83b04.r1 Stragere lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565711 5' similar to SW-PAGT_BOVIN C07537 POLYPEPTIDE N-ACE-TYLGALACTOSAMINYLTRANSFERASE ;
8052	20746	33878	3.14	3.0E-82	11425206	NT	Homo sapiens erkyn-like with transmembrane domains 1 (ANKTM1), mRNA
8454	21146	34287	0.88	3.0E-82	11432898	NT	Homo sapiens catenin 6 (CNTN6), mRNA
8454	21146	34288	0.88	3.0E-82	11432898	NT	Homo sapiens catenin 6 (CNTN6), mRNA
9724	22376	35576	3.23	3.0E-82	AB020000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
9724	22376	35576	3.23	3.0E-82	AB020000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
653	13363	25980	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0966 protein, partial cds
583	13363	25981	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0966 protein, partial cds
1881	14425	27121	1.21	2.0E-82	AL048390.1	EST_HUMAN	DKFZp434M117.1_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434M117 5'
3827	16578	29210	1.26	2.0E-82	DB07675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4208	16949	29575	1.17	2.0E-82	4504119	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4521	17256	29800	1.01	2.0E-82	AB028019.1	NT	Homo sapiens mRNA for KIAA1098 protein, partial cds
4521	17256	29801	1.01	2.0E-82	AB028019.1	NT	Homo sapiens mRNA for KIAA1098 protein, partial cds
4916	17547	30172	2.85	2.0E-82	AF045555.1	NT	Homo sapiens wiscr1 (WBSGR1) and wiscr5 (WBSGR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5021	17742	30332	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5021	17742	30333	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5384	18184	30874	5.65	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6082	18901	31827	4.73	2.0E-82	AF234882.1	NT	Homo sapiens FAM441 splice variant 4 (FAM441) mRNA, complete cds
7681	25428	32581	0.97	2.0E-82	AI476428.1	EST_HUMAN	hnt2g05.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2167272 3'
7705	20369	33482	0.85	2.0E-82	8923130	NT	Homo sapiens hypofunctional protein FLJ20128 (FLJ20128), mRNA
8204	20368	34035	2.16	2.0E-82	11321570	NT	Homo sapiens alk (Drosophila) homolog 3 (SLT3), mRNA
8568	21280	34397	0.45	2.0E-82	7657340	NT	Homo sapiens microtubule (mouse) homolog (MORC), mRNA
8568	21280	34398	0.45	2.0E-82	7657340	NT	Homo sapiens microtubule (mouse) homolog (MORC), mRNA
10009	22957	35870	1.84	2.0E-82	Y06032.1	NT	Human endogenous retrovirus-K, LTR U6 and gag gene
10009	22957	35871	1.84	2.0E-82	Y06032.1	NT	Human endogenous retrovirus-K, LTR U6 and gag gene
11237	23900	37187	1.27	2.0E-82	11417191	NT	Homo sapiens leucyl/tyrosyl aminopeptidase (LNPEP), mRNA
11270	23940	37233	4.45	2.0E-82	U80736.1	NT	Homo sapiens leucyl/tyrosyl aminopeptidase (LNPEP), mRNA
11279	23940	37234	4.45	2.0E-82	U80736.1	NT	Homo sapiens leucyl/tyrosyl aminopeptidase (LNPEP), mRNA
11750	24341	37670	1.01	2.0E-82	5031660	NT	Homo sapiens EGF-like repeats and discoidin II-like domains 3 (EDIL3), mRNA
11957	24508		1.88	2.0E-82	N84850.1	EST_HUMAN	z83b04.x1 Scores_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12485	24844		3.47	2.0E-82	AA011278.1	EST_HUMAN	201g02.1 Sources fetal liver spleen INFLS S1 Homo sapiens cDNA clone IMAGE:429568 5'
12775	25029		1.95	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y-box 10) (SOX10), mRNA
578	13358	25995	1.14	1.0E-82	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1156	13038		0.77	1.0E-82	BE085106.1	EST_HUMAN	60151089F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3912207 5'
1263	14012	26679	3.1	1.0E-82	BE004398.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
1284	14013	26680	1.26	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
8841	21533	34678	1.13	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
9553	22208	35390	0.59	1.0E-82	AB014582.1	NT	Homo sapiens mRNA for KIAA0662 protein, partial cds
10145	22763		1.17	1.0E-82	BF615608.1	EST_HUMAN	U1H-BW1-ecaf-03-0-U1a1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
10946	23337	36578	2.34	1.0E-82	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8915	21307	34449	4.51	9.0E-83	BF972220.1	EST_HUMAN	002150403F1 NIH_MGC 81 Homo sapiens cDNA clone IMAGE:4281561 5'
10174	22822	36039	0.83	9.0E-83	BE263347.1	EST_HUMAN	601117160F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3357734 5'
1392	14139	26816	3.33	8.0E-83	BE363973.1	EST_HUMAN	601273346F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3814362 5'
1676	15528	27115	5.63	8.0E-83	N68951.1	EST_HUMAN	za48f12.s1 Sources fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:295823 3'
1335	14084	28759	0.97	7.0E-83	AW385528.1	EST_HUMAN	QV4L.T0018-271269-068-h11 LT0018 Homo sapiens cDNA
2898	15935		1.86	7.0E-83	AA584095.1	EST_HUMAN	not29f1.s1 NCL CGAP_Pher1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element
4765	17497		6.68	7.0E-83	BF221813.1	EST_HUMAN	7a37a07.x1 NCL CGAP_P28 Homo sapiens cDNA clone IMAGE:3847893 3' similar to TR-Q9Y316 Q9Y316 D1207H1.1;
5900	15742	31702	0.98	7.0E-83	11429657	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
11717	24311	37634	1.4	7.0E-83	5729783	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
11717	24311	37635	1.4	7.0E-83	5729783	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
394	13179	26828	1.98	8.0E-83	M33320.1	NT	Human placental Glycoprotein IIb (GPIIb) gene, exons 2-28
1779	14520	27224	1.5	6.0E-83	AW573088.1	EST_HUMAN	IN31H03.x1 Sources NFL T_OBC.S1 Homo sapiens cDNA clone IMAGE:2833525 3' similar to SW:YBEB_HAEIN_P44471 HYPOTHETICAL PROTEIN H10034.1
3017	15783	28432	0.71	8.0E-83	AW816405.1	EST_HUMAN	QV4-ST0224-181109-037-05 ST0224 Homo sapiens cDNA
3046	15812		1.08	6.0E-83	AF231912.1	NT	Homo sapiens chromosome 21 unknown mRNA
5211	18019	30641	2.02	6.0E-83	4507866	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5933	18718	31674	1.82	6.0E-83	AJ010770.1	NT	Homo sapiens hyaluron gene, exons 1-50
7401	20079	33160	2.27	6.0E-83	11420204	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9575	22228	35413	2.85	6.0E-83	4605314	NT	Homo sapiens myosin (M-protein) 2 (168kD) (MYOM2), mRNA
9089	22321	35517	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18), mRNA
9686	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18), mRNA

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11517	24117		2.53	6.0E-83	AA466105.1	EST_HUMAN	ab14610.s1 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR12 THR repetitive element;
11908	24472		4.27	6.0E-83	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
925	13692		2.03	6.0E-83	U17883.1	NT	Homo sapiens succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2043	15526		1.55	5.0E-83	AF006305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3628	16382	26022	1.18	6.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3886	18636	20275	0.77	6.0E-83	AB85180.1	NT	Homo sapiens decarboxylase (DNASE1), mRNA
6020	17741	30350	11.53	5.0E-83	4557013.1	NT	Homo sapiens cathepsin (CAT) mRNA
5020	17741	30351	11.53	5.0E-83	4557013.1	NT	Homo sapiens cathepsin (CAT) mRNA
5083	17812	30428	1.07	6.0E-83	5031680.1	NT	Homo sapiens EGF-like repeats and disocidin H-like domains 3 (EDIL3), mRNA
5083	17812	30429	1.07	5.0E-83	5031680.1	NT	Homo sapiens EGF-like repeats and disocidin H-like domains 3 (EDIL3), mRNA
625	13404	26039	1.72	4.0E-83	AF224689.1	NT	Homo sapiens mannose, beta A, lysozyme (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
977	13742		4.9	3.0E-83	AA388311.1	EST_HUMAN	EST79542 Plecton H Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9
2780	18485		1.33	3.0E-83	AA632854.1	EST_HUMAN	np87c07.s1 NC1 CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR12 THR repetitive element;
6483	19250		0.62	3.0E-83	AI217223.1	EST_HUMAN	qf73a08.s1 Scores_blast_NHT Homo sapiens cDNA clone IMAGE:1755882 3'
1792	14532	27240	1.86	2.0E-83	AA983492.1	EST_HUMAN	Q82814 MYELOBLAST KIAA0216;
1792	14532	27241	1.86	2.0E-83	AA983492.1	EST_HUMAN	Q82814 MYELOBLAST KIAA0216;
1918	14856	27365	4.07	2.0E-83	NC05951.1	EST_HUMAN	Q82814 MYELOBLAST KIAA0216;
2890	19024	28288	1.1	2.0E-83	BE828944.1	EST_HUMAN	Q82814 MYELOBLAST KIAA0216;
3283	18025		1.89	2.0E-83	11430834.1	NT	Q82814 MYELOBLAST KIAA0216;
3788	18508		0.7	2.0E-83	AL163202.2	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
4302	17041	29068	4.11	2.0E-83	AF202879.1	NT	Homo sapiens chromosome 21 segment HS21C002
4804	17339	29069	6.14	2.0E-83	7706398.1	NT	Homo sapiens hemopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4804	17339	29069	6.14	2.0E-83	7706398.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51878), mRNA
5186	17897	30020	0.9	2.0E-83	U06679.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51878), mRNA
5755	18547	31468	0.85	2.0E-83	11428081.1	NT	Human carcinoembryonic antigen gene family member 18 (CG18) gene, exons A1 and B1
6876	18662	31603	1.31	2.0E-83	BE885401.1	EST_HUMAN	Homo sapiens membrane protein GHT (GHT), mRNA
6847	19408	32423	1.12	2.0E-83	AF126833.1	NT	601507462F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3006068 5'
7335	20017	33095	6.38	2.0E-83	AF126833.1	NT	Homo sapiens F-box protein FB3b (FB3B) mRNA, partial cds

Page 385 of 536
Table 4

Single Exon Probes Expressed in Brain

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7704	20387	33480	0.64	2.0E-83	BF105097.1	EST_HUMAN	601822000F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
7742	20438	33560	0.76	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain pyridine receptor, complete cds
7742	20438	33561	0.76	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain pyridine receptor, complete cds
7886	20581	33710	1.79	2.0E-83	U08707.1	NT	Rattus norvegicus desmin-180 mRNA, complete cds
8213	20907	34042	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8213	20907	34043	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9494	22147	35328	0.48	2.0E-83	AF011920.1	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9634	22582	35780	4.01	2.0E-83	M22094.1	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9634	22582	35781	4.01	2.0E-83	M22094.1	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
10089	22737	35952	0.77	2.0E-83	AU117696.1	EST_HUMAN	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10753	23438	36882	0.64	2.0E-83	AL134452.1	EST_HUMAN	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10845	23527	36770	2.19	2.0E-83	AL134452.1	EST_HUMAN	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
12522	24869	36771	3.85	2.0E-83	AB011399.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
1390	14137	26813	2.18	1.0E-83	4504326	NT	Human sapiens KIAA0085 protein (KIAA0085), mRNA
1390	14137	26814	2.18	1.0E-83	4504326	NT	Human sapiens KIAA0085 protein (KIAA0085), mRNA
1442	14189	26873	0.98	1.0E-83	AF105067.1	NT	Hydrolase (trifunctional protein), beta subunit (HADHB) mRNA
1442	14189	26874	0.98	1.0E-83	AF105067.1	NT	Hydrolase (trifunctional protein), beta subunit (HADHB) mRNA
3179	15942	28593	1.18	1.0E-83	7862349	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
3850	16900	29237	3.93	1.0E-83	AF053768.1	NT	Homo sapiens cell recognition molecule Cesp22 (KIAA0888), mRNA
4220	18681	29588	1.99	1.0E-83	Z55822.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4831	17562	30164	3.36	1.0E-83	4502106	NT	H. sapiens gene for mitochondrial dolichoyl-CoA delta-isomerase, exon 3
6506	19250	32373	1.95	1.0E-83	A027614.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3776	16528	29167	3.8	7.0E-84	BE801209.1	EST_HUMAN	040908.x1 Source: testis_NHT Homo sapiens cDNA clone IMAGE:1645431 similar to gb:164241 OM
1272	14021	26887	3.5	6.0E-84	BE838864.1	EST_HUMAN	PROTEIN (HUMAN)
1272	14021	26888	3.5	6.0E-84	BE838864.1	EST_HUMAN	001676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:358853 5'
2386	15117	27854	8.26	6.0E-84	AA776574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5180	17892		3.33	6.0E-84	AL042963.2	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
							se8603.a1 Stragene sc230 brain S11 Homo sapiens cDNA clone IMAGE:3971020 3'
							DKFZp434H0322_r1 434 (synonym: hbe3) Homo sapiens cDNA clone DKFZp434H0322 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5431	18230	30943	1.87	6.0E-84	AA897339.1	EST_HUMAN	sl47G3.11 Score: NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1469500 3' similar to gbM14338 VITAMIN K-DEPENDENT PROTEIN 5 PRECURSOR (HUMAN);
5574	18371	31282	1.04	6.0E-84	11428718	NT	Homo sapiens acyl-LDL receptor, SRE-C scavenger receptor expressed by endothelial cells (SREC), mRNA
5574	18371	31283	1.04	6.0E-84	11428718	NT	Homo sapiens acyl-LDL receptor, SRE-C scavenger receptor expressed by endothelial cells (SREC), mRNA
7373	20053	33134	2.94	6.0E-84	BE810371.1	EST_HUMAN	PMO-L1 T0019-100800-004-F02_L T0019 Homo sapiens cDNA
7591	20259	33397	0.97	6.0E-84	AF038391.1	NT	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
7672	20697	33788	2.37	6.0E-84	BE770198.1	EST_HUMAN	PM4-F10054-160900-004-e10 F10054 Homo sapiens cDNA
687	13472	28121	0.71	6.0E-84	AA382811.1	EST_HUMAN	EST160694 Testis 1 Homo sapiens cDNA 5' end
3013	15779		1.82	6.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6015	18798	31788	0.59	6.0E-84	AA167678.1	EST_HUMAN	zgc6067.1 Stratigene INT neuron (#637233) Homo sapiens cDNA clone IMAGE:632100 5' similar to TR:0463915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q. ;
11833	24133	37438	3.17	6.0E-84	11428740	NT	Homo sapiens regulatory factor X-3 (influences HLA class II expression) (RFX3), mRNA
11852	24249	37570	1.77	6.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11852	24249	37571	1.77	6.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11813	24401	37738	1.44	6.0E-84	11433550	NT	Homo sapiens tropomodulin 2 (neuronal) (TMOD2), mRNA
1389	14138	28812	2.19	4.0E-84	AB68321.1	EST_HUMAN	wa76c04.x1 Score: NPL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302088 3' similar to SW-INDC_HUMAN 043847 NARDILYSIN PRECURSOR ;
4987	17624	30242	1.79	4.0E-84	AF009912	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5475	18274	31168	1.36	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5475	18274	31169	1.36	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6175	18952	31925	1.89	4.0E-84	AF059930.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7547	20217	33319	14.38	4.0E-84	11421328	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8009	21601	34647	1.21	4.0E-84	4557528	NT	Homo sapiens disc, large (Discophilin) homolog 2 (chagayn-110) (DLG2) mRNA
8909	21501	34948	1.21	4.0E-84	4557528	NT	Homo sapiens disc, large (Discophilin) homolog 2 (chagayn-110) (DLG2) mRNA
10835	23517	36759	4.51	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
308	13112	28782	1.24	3.0E-84	AF028200.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
1953	14888	27401	1.15	3.0E-84	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2001	14736	27460	2.41	3.0E-84	AL096880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3578	16333	28977	1.07	3.0E-84	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3731	16483	29121	5.2	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLR51) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10790	22473		3.55	3.0E-84	A1983801.1	EST_HUMAN	wu20d06.x1 Soares. Dialectal, codon, NHCD Homo sapiens cDNA clone IMAGE:2520885 3' similar to
2098	14829	27563	6.94	2.0E-84	BE963397.1	EST_HUMAN	gbL105983.05 RIBOSOMAL PROTEIN L18A (HUMAN);
2098	14829	27564	6.94	2.0E-84	BE963397.1	EST_HUMAN	CM1-BT0705-10000-272-508 BT0705 Homo sapiens cDNA
2844	15710	28382	9.31	2.0E-84	AF039843.1	NT	CM1-BT0705-10000-272-508 BT0705 Homo sapiens cDNA
2962	15728	28378	0.77	2.0E-84	X88211.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
5439	18238	30862	0.82	2.0E-84	BF511576.1	EST_HUMAN	H sapiens DNA for endogenous retroviral like element
5439	18238	30863	0.92	2.0E-84	BF511576.1	EST_HUMAN	UHH-B14-act-a-02-Q-U1.1 NCI CGAP. Su88 Homo sapiens cDNA clone IMAGE:3084983 3'
6540	18305	32310	0.75	2.0E-84	H63370.1	EST_HUMAN	UHH-B14-act-a-02-Q-U1.1 NCI CGAP. Su88 Homo sapiens cDNA clone IMAGE:3084983 3'
7056	20651		1.36	2.0E-84	A126874.1	EST_HUMAN	yf06a1.1.x1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:209324 3'
8284	20978	34118	0.49	2.0E-84	AL163204.2	NT	qms8700.x1 NCI CGAP. Lu5 Homo sapiens cDNA clone IMAGE:1866728 3'
8284	20978	34119	0.48	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS210004
9245	21924	35004	0.81	2.0E-84	AU120280.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS210004
9631	22283	35476	0.61	2.0E-84	H22841.1	EST_HUMAN	UHH-B11.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:51383 5' similar to SP:APOH_RAT
12159	24643	31100	3	2.0E-84	BF448800.1	EST_HUMAN	P20644 BETA-2-GLYCOPROTEIN 1;
12159	24643	31101	3	2.0E-84	BF448800.1	EST_HUMAN	ncs30a02.x1 Lupakid. synapthelic, trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to
304	13108	28748	1.88	1.0E-84	AF114488.1	NT	TR-08UGS3 QBUJGS3 DJ796623.1;
536	13319	25963	20.64	1.0E-84	4507962	NT	TR-08UGS3 QBUJGS3 DJ796623.1;
703	13478		1	1.0E-84	11427631	NT	Homo sapiens tyrosine 3-monooxygenase/tyrosinase 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
1270	14019	28685	3.17	1.0E-84	AA984379.1	EST_HUMAN	Homo sapiens complement component 5 (C5), mRNA
2048	14781	27508	1.92	1.0E-84	BE382137.1	EST_HUMAN	am85b11.1.a1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
2220	14848	27698	1.13	1.0E-84	11427107	NT	801308000f.1 NIH_JAGC. 44 Homo sapiens cDNA clone IMAGE:3420257 5'
3733	16486	28123	2.48	1.0E-84	AA720861.1	EST_HUMAN	Homo sapiens pericentriolar material 1 (PCM1), mRNA
4383	17120	29752	5.01	1.0E-84	AJ229041.1	NT	nm12a08.1 NCI CGAP. BS1 Homo sapiens cDNA clone IMAGE:1239106 3'
4651	17385	30017	3.63	1.0E-84	AL043314.2	EST_HUMAN	Homo sapiens 659 kb contig between AML1 and GBR1 on chromosome 21q22, segment 1/3
4651	17385	30018	3.63	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323.1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434N0323 5'
4655	17120	29752	2.67	1.0E-84	AJ229041.1	NT	DKFZp434N0323.1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434N0323 5'
5163	17870	30483	1.15	1.0E-84	AJ229041.1	NT	Homo sapiens 659 kb contig between AML1 and GBR1 on chromosome 21q22, segment 1/3
5830	18619	31551	0.98	1.0E-84	11434429	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6097	18875	31844	1.41	1.0E-84	S73482.1	NT	uterine water channel-28 kDa erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
6781	19525	32552	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
6781	19525	32553	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7007	19599	32753	2.32	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7369	20049	33130	1.26	1.0E-84	8333984	NT	Homo sapiens polyoma (DNA directed), alpha (POLA), mRNA
7501	20137	33226	2.42	1.0E-84	11430848	NT	Homo sapiens NGF-A binding protein 1 (ERGT binding protein 1) (NAB1), mRNA
8435	22113		3.05	1.0E-84	5031964	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
9670	22322	33519	0.63	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
9680	17900	30588	3.05	1.0E-84	4607848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9680	17900	30589	3.05	1.0E-84	4607848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10496	23142	36398	1.06	1.0E-84	11437356	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRI4A), mRNA
12046	24566		2.34	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RX1), mRNA
12151	24688	31086	3.2	1.0E-84	11418785	NT	Homo sapiens acylase 2, mitochondrial (ACO2), mRNA
946	13712		1.06	9.0E-85	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1051	13870	26469	2.39	9.0E-85	U61432.1	NT	Homo sapiens nuclear protein Slp mRNA, complete cds
1051	13870	26470	2.39	9.0E-85	U61432.1	NT	Homo sapiens nuclear protein Slp mRNA, complete cds
1360	14108	28783	0.95	9.0E-85	4758969	NT	Homo sapiens leupadin (LDPL), mRNA
1572	14319	27004	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1572	14319	27005	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1670	14415	27108	3.6	9.0E-85	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
4225	19086	26991	0.96	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4824	17566	30177	0.96	9.0E-85	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
4856	17585	30208	1.12	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C088
1114	13871	26530	1.45	7.0E-85	LD5094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11642	24239		4.32	7.0E-85	AF119320.1	NT	Homo sapiens MSTP090 mRNA, complete cds
11392	23998	37300	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11392	23998	37301	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11766	24357	37690	1.29	6.0E-85	AA400053.1	EST HUMAN	262001.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726869 5' similar to TR:G1935769
2332	15058	27792	1.49	5.0E-85	AL163284.2	NT	G1935769 GAG-POL POLYPYPTOTEN; ; Homo sapiens chromosome 21 segment HS21C084

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4398	17138		0.8	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1a isoform (CACNA11) mRNA, complete cds
5394	18188	30851	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458946F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862402 5'
5394	18188	30852	1.4	5.0E-86	BF035674.1	EST_HUMAN	601458946F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862402 5'
11063	23733	37005	2	5.0E-85	AF224699.1	NT	Homo sapiens meninoidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12743	17138		5.28	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1a isoform (CACNA11) mRNA, complete cds
8036	18836	31787	1.51	4.0E-85	BF077910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246087 5'
8036	18836	31798	1.51	4.0E-86	BF077910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246087 5'
10472	23118		1.3	4.0E-86	BE076283.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1276	14026	26984	2.88	3.0E-85	AF098157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1773	14515	27215	3.51	3.0E-85	T07495.1	EST_HUMAN	yes5g06.t1 Soares fetal liver spleen TNFLS Homo sapiens cDNA clone IMAGE:121504 5'
4280	17019	28048	6.53	3.0E-85	BE287189.1	EST_HUMAN	601188704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'
4841	17571	30194	1.45	3.0E-85	11024895	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4841	17571	30195	1.45	3.0E-85	11024895	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5316	18120	30777	1.07	3.0E-85	11438001	NT	Homo sapiens leucine rich protein (LPRP), mRNA
5684	18776	31737	0.63	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
8043	18823	31783	5.71	3.0E-85	7982309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
8043	18823	31784	5.71	3.0E-85	7982309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
8853	19533		7.79	3.0E-85	AJ404488.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH16 gene)
7285	19878	33055	0.91	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0821 protein 1 (KIAA0821), mRNA
7771	20467	33591	1.89	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8406	21068	34235	0.74	3.0E-85	11525820	NT	Homo sapiens C9orf81 protein (LOC51108), mRNA
8877	21588	34712	3.8	3.0E-85	11430889	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9206	22085	35257	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRPB2), mRNA
9206	22085	35258	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRPB2), mRNA
10381	23027	38242	0.56	3.0E-85	AF088442.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
10730	23418	38059	1.86	3.0E-85	BE150392.1	EST_HUMAN	RC1-H10286-031289-012-058 HT0288 Homo sapiens cDNA
11480	24091	37403	2.25	3.0E-85	5031680	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11824	24408	37742	1.79	3.0E-85	AB028030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
11824	24408	37743	1.79	3.0E-85	AB028030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
12840	24937		1.98	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1017	13777	26438	2.34	2.0E-95	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D18) mRNA, complete cds
1383	14130	26803	0.97	2.0E-95	7709295	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1389	14146	26824	8.26	2.0E-95	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1399	14146	26825	8.28	2.0E-95	5174776	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2226	14954	27692	1.93	2.0E-95	U10325.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2626	14963	27692	5.26	2.0E-95	7667468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3022	15788	28435	1.18	2.0E-95	M30698.1	NT	Homo sapiens plasminogen (PLG) mRNA
4300	17039	29056	4.51	2.0E-95	4503680	NT	Homo sapiens retin (RELN) mRNA
4527	17262	29696	1.22	2.0E-95	4626977	NT	Homo sapiens chromosome 21 segment H521C084
4854	17694	30207	0.97	2.0E-95	AL163284.2	NT	w60708.x1 NCI CGAP_K012 Homo sapiens cDNA clone IMAGE:2396431 3' similar to contains element
9173	21843	35009	3.18	2.0E-95	A1760820.1	EST_HUMAN	MSR1 repetitive element
9549	22202	35385	1.08	2.0E-95	A0144480.1	EST_HUMAN	wd40403.x1 Scores_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2381481 3'
10162	22810	36029	1.32	2.0E-95	A1806384.1	EST_HUMAN	wm94812.x1 NCI CGAP_U2 Homo sapiens cDNA clone IMAGE:2443807 3'
2295	15010	27650	2.86	1.0E-95	BE784303.1	EST_HUMAN	001561410F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
2392	15113	27850	8.42	1.0E-95	BE618302.1	EST_HUMAN	001462817F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3966021 5'
2392	15113	27851	8.42	1.0E-95	BE618302.1	EST_HUMAN	001106739F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350563 5'
9081	22333	35528	4.38	1.0E-95	BE257817.1	EST_HUMAN	001462817F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3966021 5'
10842	23524	36766	2.77	1.0E-95	AA178785.1	EST_HUMAN	345803.s1 Scores_fetal_liver_aplens_INFL_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10842	23524	36767	2.77	1.0E-95	AA178785.1	EST_HUMAN	345803.s1 Scores_fetal_liver_aplens_INFL_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23599	36847	1.73	1.0E-95	BF311552.1	EST_HUMAN	001867003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129440 5'
10919	23599	36848	1.73	1.0E-95	BF311552.1	EST_HUMAN	001867003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129440 5'
10897	23670	36827	1.28	1.0E-95	Y00052.1	NT	Human mRNA for T-cell cyclophilin
11773	24394	37896	2.41	1.0E-95	A1198420.1	EST_HUMAN	g53607.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1890488 3'
12050	24722	31053	4.4	1.0E-95	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12295	24722	31053	4.74	1.0E-95	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1409	14156	27692	11.19	9.0E-96	BE274217.1	EST_HUMAN	001120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967060 5'
11698	24236	37818	1.57	8.0E-96	4503224	NT	Homo sapiens cyclophilin P450, subfamily IIF, polypeptide 1 (CYPP2F1) mRNA
916	13683	28346	2.34	7.0E-96	A1806001.1	EST_HUMAN	g58068.s1 Scores_peritrophic_tumor_NHHPA Homo sapiens cDNA clone IMAGE:403556 3'
916	13683	28346	2.34	7.0E-96	A1806001.1	EST_HUMAN	g58068.s1 Scores_peritrophic_tumor_NHHPA Homo sapiens cDNA clone IMAGE:403556 3'
6103	18881	31848	1.02	7.0E-96	9906898	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6103	18881	31849	1.02	7.0E-96	9906898	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6890	17956	30553	0.65	7.0E-96	11421737	NT	Homo sapiens Tact (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
8843	21335	34470	3.06	7.0E-96	338557.1	NT	Homo sapiens galactose-6-phosphate (GALC) gene, exon 15

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9689	22252		1.39	7.0E-88	5453987	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9688	22310	35508	2.27	7.0E-88	11528307	NT	Homo sapiens DGeorge syndrome critical region gene 6 (DGCR6), mRNA
10882	23562	36809	1.72	7.0E-88	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC83170), mRNA
10882	23562	36810	1.72	7.0E-88	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC83170), mRNA
1271	14020	26888	2.88	6.0E-88	4505492	NT	Homo sapiens octylglutarate dehydrogenase (liponitrile) (OGDH) mRNA
5105	17825	30440	2.64	6.0E-88	Y19139.1	NT	Homo sapiens anteroposteriorless gene, exons 20 and 21
6107	17825	30442	1.07	6.0E-88	6005833	NT	Homo sapiens 24 kDa intrinsc membrane protein (PMP24), mRNA
206	13018	25660	4.98	4.0E-88	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3468830 5'
5944	18726	31684	12.1	4.0E-88	BE295843.1	EST_HUMAN	601176988F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3631983 5'
11205	13018	25660	2.18	4.0E-88	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3468830 5'
5509	18307	31208	6.97	3.0E-88	AW340948.1	EST_HUMAN	5262512.X1 NCL_OGAP_Luc24 Homo sapiens cDNA clone IMAGE:2871719 3'
8100	20854	33985	1.05	3.0E-88	AV723239.1	EST_HUMAN	AV7232328 HTB Homo sapiens cDNA clone HTB85D04 5'
10120	22768	35080	3.37	3.0E-88	BE888479.1	EST_HUMAN	601500898F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10120	22768	35081	3.37	3.0E-88	BE888479.1	EST_HUMAN	601500898F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11413	23180	36408	5.14	3.0E-88	AI659240.1	EST_HUMAN	1418502.X1 NCL_OGAP_Pr28 Homo sapiens cDNA clone IMAGE:2251371 3'
11708	24303	37628	1.8	3.0E-88	11037056	NT	Homo sapiens myosin X (MYO10), mRNA
260	13068	25706	2.02	2.0E-88	AA306264.1	EST_HUMAN	EST1177232 Jurkat T-cells V1 Homo sapiens cDNA 5' end
405	13190		2.59	2.0E-88	AL103203.2	NT	Homo sapiens chromosome 21 segment HS21C033
1168	13922	26884	3.21	2.0E-88	NS86977.1	EST_HUMAN	yz19a08.1.T Soares_multiple_sclerosis_2NBHMSP Homo sapiens cDNA clone IMAGE:283478 5'
1478	14225	28810	1.63	2.0E-88	4768827	NT	Homo sapiens neuritin III (NRXN3) mRNA
1478	14225	28811	1.93	2.0E-88	4768827	NT	Homo sapiens neuritin III (NRXN3) mRNA
2188	14917	27951	5.09	2.0E-88	9835487	NT	Human endogenous retrovirus, complete genome
2266	14982	27732	1.55	2.0E-88	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3410	18188	28817	1.3	2.0E-88	AW988142.1	EST_HUMAN	EST378216 MAGE retrosequences, MAGI Homo sapiens cDNA
3729	19481	29118	3.54	2.0E-88	AF158776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3729	19481	29119	3.64	2.0E-88	AF158776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4019	18785	30106	2.84	2.0E-88	AW151742.1	EST_HUMAN	1487g08.X1 NCL_OGAP_G08 Homo sapiens cDNA clone IMAGE:28716542 3'
4737	17469	31501	3.26	2.0E-88	AF099490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5782	18573	31501	1.52	2.0E-88	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
5782	18573	31502	1.52	2.0E-88	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
6974	25098	32476	0.69	2.0E-88	11419429	NT	Homo sapiens similar to eukaryotic pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
7008	20603	33733	0.69	2.0E-88	U84744.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds
8414	21107		0.47	2.0E-88	AL169227.2	NT	Homo sapiens chromosome 21 segment HS21C027

Page 392 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8472	21104	34307	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8472	21104	34308	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8801	21493	34940	0.95	2.0E-86	10863878	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9218	21897	35987	1.95	2.0E-86	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog-like) (CSE1L), mRNA
10345	22982	36210	2.91	2.0E-86	11548949	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10345	22982	36211	2.91	2.0E-86	11548949	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10400	23046	36262	1.15	2.0E-86	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10820	23603	36742	2.64	2.0E-86	47680057	NT	Homo sapiens ribosomal protein S8 kinase, 80kD, polypeptide 6 (RPS8KAB), mRNA
12458	24627	31027	3.07	2.0E-86	11418188	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P-1), mRNA
12621	24926		4.26	2.0E-86	AB011369.1	NT	Homo sapiens gene for AF-6, complete cds
1592	14838	27027	2.28	1.0E-86	4629855	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (76kD) (NADH-coenzyme Q reductase) (NDUFS1), mRNA
3100	15923	28569	1.5	1.0E-86	54531649	NT	Homo sapiens fibulin 5 (FBLN5), mRNA
3229	15992	28845	2.7	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3290	16051	28989	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3290	16051	28700	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3626	16876	29318	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3626	16876	29319	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4233	16974	29369	5.2	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4578	17313	29941	1.23	1.0E-86	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
5465	18264	31155	2	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11606	18264	31155	1.37	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
6272	18078		1.81	9.0E-87	AI180703.1	EST_HUMAN	q77c09.x1 Scars, field NH-H19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02836 KERATIN, TYPE I CYTOSKELETAL 10
7349	20029	33105	1.7	9.0E-87	4767721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7349	20029	33106	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
467	13252	25883	15.93	8.0E-87	X62245.1	NT	O. carassius mRNA for elongation factor 1 alpha
2294	15019	27755	1.79	7.0E-87	BF063211.1	EST_HUMAN	7h9502.x1 NCI CGAP Cor18 Homo sapiens cDNA clone IMAGE:3322779 3'
2294	15019	27756	1.79	7.0E-87	BF063211.1	EST_HUMAN	7h9502.x1 NCI CGAP Cor18 Homo sapiens cDNA clone IMAGE:3322779 3'
8307	19079	32084	0.57	7.0E-87	AF080336.1	EST_HUMAN	MF0-NT0039-020500-004-att1 NT0039 Homo sapiens cDNA
8089	20783	33913	3.4	7.0E-87	BF352778.1	EST_HUMAN	IL3-H10619-060700-198-D10 HT0619 Homo sapiens cDNA
8354	20425	33544	1.15	7.0E-87	BE112681.1	EST_HUMAN	IL5-H10702-100900-103-008 HT0702 Homo sapiens cDNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9971	22619	35622	3.85	7.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323.J1.434 (synonym: hess3) Homo sapiens cDNA clone DKFZp434N0323.5'
9971	22619	35623	3.85	7.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323.J1.434 (synonym: hess3) Homo sapiens cDNA clone DKFZp434N0323.5'
10396	26129		0.61	7.0E-97	AB018156.1	EST_HUMAN	cd08901.s1 Source: NIH-MPc.S1 Homo sapiens cDNA clone IMAGE:1690657.3'
10806	23489	36724	6.95	7.0E-97	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MFCHLA-SB-1 intron A
10806	23489	36725	6.65	7.0E-97	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MFCHLA-SB-1 intron A
3517	16273	28927	0.96	6.0E-87	7657213.1	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK). mRNA
5128	17846	30463	0.99	6.0E-87	7657213.1	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK). mRNA
6327	19097	32065	2.02	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10625	23318		4.13	6.0E-97	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102). mRNA
1135	13891	28551	1.42	5.0E-97	A4382811.1	EST_HUMAN	EST190094 Testis 1 Homo sapiens cDNA 5' end
12297	13891	28551	1.56	5.0E-97	A4382811.1	EST_HUMAN	EST190094 Testis 1 Homo sapiens cDNA 5' end
949	13711	26378	1.51	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1149	13904	26500	13.58	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2024	14750	27488	1.53	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA0450 protein, partial cds
2421	15142	27874	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626). mRNA
2421	15142	27875	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626). mRNA
3457	16213	28966	1.8	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q23)) translocated to, 4 (MLLT4). mRNA
5360	18162	30946	2.77	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLLOCATION VARIANT 2)
5954	18736	31906	4.83	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP4051
7070	20334	35445	0.72	4.0E-87	LA8524.1	NT	Homo sapiens tubulin (TSC2) gene, exon 10
11118	23788	37066	3.44	4.0E-87	M00678.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12398	25268	30721	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330). mRNA
12398	25268	30722	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330). mRNA
12541	24881	28923	2.25	4.0E-87	11417812	NT	Homo sapiens putative receptor P2X-like 1, orphan receptor (P2RX1). mRNA
2779	15484	28923	2.77	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HM34) mRNA
3794	18516	29164	0.83	2.0E-87	AU1196935.1	EST_HUMAN	AU1196935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307.5'
4857	17586	30209	1.26	2.0E-87	BE7376311.1	EST_HUMAN	CMO-TN0036-150600-952-H08 TN00360 Homo sapiens cDNA
4807	17834	30249	1.47	2.0E-87	BE176478.1	EST_HUMAN	RC5-H10090-200300-031-G04 HT0580 Homo sapiens cDNA
5575	18372	31284	10.34	2.0E-87	BE734190.1	EST_HUMAN	601560041F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3943730.5'
5575	18372	31285	10.34	2.0E-87	BE734190.1	EST_HUMAN	601560041F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3943730.5'
6234	19008		9.81	2.0E-87	BE567193.1	EST_HUMAN	601341353F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3983248.5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6500	19362	32376	0.69	2.0E-87	N48128.1	EST_HUMAN	W21607.1 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:243306 5'
6883	19600	32638	0.81	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLCDSG04 3'
7073	19704	32828	1.58	2.0E-87	BE294432.1	EST_HUMAN	601178632F1 NH1_MGC_17 Homo sapiens cDNA clone IMAGE:3331511 5'
7126	19814	32882	0.94	2.0E-87	11433048	NT	Homo sapiens hsd domain and RLD 2 (HERC2), mRNA
7363	20034	33112	39.61	2.0E-87	N48128.1	EST_HUMAN	W21607.1 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:243306 5'
7687	20255	33302	35.45	2.0E-87	N48128.1	EST_HUMAN	W21607.1 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:243306 5'
8284	20686	34127	17.42	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9685	22337		5.72	2.0E-87	BE531136.1	EST_HUMAN	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1159	15521		2.08	1.0E-87	7705883	NT	Human mRNA for T-cell cyclophilin
1411	14158	26840	1.1	1.0E-87	AV36197.1	EST_HUMAN	Homo sapiens neurodin III (NRXN3), mRNA
1411	14158	26841	1.1	1.0E-87	AV36197.1	EST_HUMAN	Homo sapiens neurodin III (NRXN3), mRNA
3087	16451	29080	6.23	1.0E-87	Y00082.1	EST_HUMAN	Homo sapiens Intersectin long isoform (ITSN), complete cds
3717	16470	29108	2.43	1.0E-87	4758827	NT	Homo sapiens Intersectin long isoform (ITSN), complete cds
5085	17814	30431	0.66	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN), complete cds
5149	12533	26570	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN), complete cds
6132	18910	31878	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6132	18910	31879	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32832	0.82	1.0E-87	AF036517.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32833	0.82	1.0E-87	AF036517.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7083	19773	32838	1.18	1.0E-87	4506786	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7288	19881	33057	1.23	1.0E-87	11431560	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
8015	20710	33840	12.83	1.0E-87	AF214502.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
8807	21499	34644	0.97	1.0E-87	AB022918.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
8807	21499	34645	0.97	1.0E-87	AB022918.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
9533	22188	35371	2.86	1.0E-87	BE18183.1	EST_HUMAN	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
9533	22188	35372	2.85	1.0E-87	BE18183.1	EST_HUMAN	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
10272	22920	36131	0.87	1.0E-87	M34426.1	EST_HUMAN	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
10633	23325	36562	1.55	1.0E-87	5729887	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
10821	23801		1.82	1.0E-87	D10083.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
10885	23841	36883	1.08	1.0E-87	5031680	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
10885	23841	36884	1.08	1.0E-87	5031680	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
12383	25404		3.54	1.0E-87	7057632	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
12808	25240		3.94	1.0E-87	7057632	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1084	13842	28500	10.24	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	14076	28750	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	14076	28751	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2115	14846	27675	1.57	9.0E-88	7061701	NT	Homo sapiens DKFZP586P1522 protein (DKFZP586P1522), mRNA
3617	15370	29012	1.35	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4236	16077	29802	2.73	9.0E-88	XG1629.1	NT	H. sapiens ECE-1 gene (exon 9)
4236	16077	29803	2.73	9.0E-88	XG1629.1	NT	H. sapiens ECE-1 gene (exon 9)
4943	17670	30278	1.05	9.0E-88	AB026888.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8619	21610	34754	3.82	6.0E-88	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1820	14559		1.02	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2045	15555	28100	3.76	5.0E-88	N95399.1	EST_HUMAN	KG719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone KG719 5' similar to ZINC FINGER PROTEIN HZF1
3000	15766	28414	0.9	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3384	16143		2.28	5.0E-88	AI063217.1	EST_HUMAN	wd08408.x1 NCL CGAP_Luc24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to cortals Alu repetitive element; contains element MEF22 MEF22 repetitive element;
4987	17421	30058	0.83	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
6672	19589	32625	3.19	5.0E-88	HI10832.1	EST_HUMAN	pr00610.r1 Scores infant brain 1N18 Homo sapiens cDNA clone IMAGE:47729 5'
7830	20525	33650	1.8	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9211	21890	33057	0.45	5.0E-88	BF080206.1	EST_HUMAN	902154638F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4266775 5'
1306	14055	26728	1.42	4.0E-88	BF061229.1	EST_HUMAN	PM1-TN0028-050800-004-F10 TN0028 Homo sapiens cDNA
1306	14055	26730	1.42	4.0E-88	BF061229.1	EST_HUMAN	PM1-TN0028-050800-004-F10 TN0028 Homo sapiens cDNA
7143	19530	32889	1.43	4.0E-88	11416585	NT	Homo sapiens transferrin growth factor, beta-induced, 68kD (TGFB1), mRNA
10827	23509	36749	1.8	4.0E-88	4502864	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11471	24072	37380	1.89	4.0E-88	7061947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11471	24072	37381	1.89	4.0E-88	7061947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
1305	14545	26140	1.85	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
2948	15714	28387	4.11	3.0E-88	4509020	EST_HUMAN	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
4216	16957	29579	1.24	3.0E-88	4501912	NT	z44812.1 Scores fetal liver apelin 1N1FLS Homo sapiens cDNA clone IMAGE:296823 3'
4216	16957	29580	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4444	17180		4.06	3.0E-88	11426300	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
5216	18024	30048	2.85	3.0E-88	11426567	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
							Homo sapiens veldin-containing protein (VCP), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5498	18296	31194	4.13	3.0E-88	6968888	NT	Homo sapiens polydactylaria rubra virus 1; cell surface receptor (PRV), mRNA
5618	18414	31327	3.56	3.0E-88	11420907	NT	Homo sapiens v-raf similar leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6069	18848	31812	0.61	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6319	25088	32076	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6319	25088	32077	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6965	19447	32465	14.59	3.0E-88	AF276285.1	NT	Homo sapiens putative arion transporter 1 mRNA, complete cds
7440	20117	33206	0.15	3.0E-88	11436400	NT	Homo sapiens reticulocytin-binding protein 2 (RBBP2), mRNA
7821	20516	33642	0.68	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 6 (cardiocyte-derived morphogenetic protein-1) (GDF6), mRNA
8096	20790	33921	1.35	3.0E-88	AF034374.1	NT	Homo sapiens myeloid leukemia cofactor biosynthesis protein A and myeloid leukemia cofactor biosynthesis protein C mRNA, complete cds
9334	20405	33521	1.99	3.0E-88	11528262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
9828	22479	35680	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9828	22479	35681	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9857	22507	35705	1.28	3.0E-88	11439095	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12139	24628	37057	5.87	3.0E-88	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1013	13773	20432	3.32	2.0E-88	7305188	NT	Homo sapiens Calretinin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1620	14367	27056	1.39	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1744	14488	27185	3.13	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3458	16214	28867	1.52	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4391	17128	29780	2.13	2.0E-88	5031969	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAI4), mRNA
5821	18910	31539	5.63	1.0E-88	AW139665.1	EST_HUMAN	UHL-B11-ene-4-04-0-UI.s1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
5821	18910	31540	5.63	1.0E-88	AW139665.1	EST_HUMAN	UHL-B11-ene-4-04-0-UI.s1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6548	18313	32317	23.61	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6548	18313	32318	23.61	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7022	19714	32771	1.4	1.0E-88	AB96034.1	EST_HUMAN	vs70r12.ct NCI CGAP G08 Homo sapiens cDNA clone IMAGE:2478806 3'
7084	19774	32839	4.42	1.0E-88	AA489881.1	EST_HUMAN	ae54at11.s1 NCI CGAP G08 Homo sapiens cDNA clone IMAGE:2478806 3'
9141	21872	35637	0.5	1.0E-88	AA190398.1	EST_HUMAN	z67202.1 Strategic Human cell c3 937218 Homo sapiens cDNA clone IMAGE:927170 5' similar to SW-POL1 HUMAN P10298 RETROVIRUS-RELATED POLYPROTEIN ;
9478	22131	35311	2.97	1.0E-88	ALD43314.2	EST_HUMAN	DKFZ454N0323 J1 434 (synonym: hncs3) Homo sapiens cDNA clone DKFZ454N0323 5'
11422	23189	36420	2.99	1.0E-88	AA991479.1	EST_HUMAN	ccsf1g03.s1 NCI CGAP G03 Homo sapiens cDNA clone IMAGE:1612768 3' similar to gb:M18342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
12350	24760		3	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) HIT BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2739	15445	28184	1.33	8.0E-89	BE311557.1	EST_HUMAN	G01422-08F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
8833	10495	32519	1.2	8.0E-89	11421514	NT	Homo sapiens similar to serine domain, intranuclear domain (Ig), short basic domain, secreted, (serinephospho) 3A (H. sapiens) (LOC63232), mRNA
424	13210	28968	1.72	7.0E-89	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
424	13210	28967	1.72	7.0E-89	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
4828	17559	30181	2.86	7.0E-89	4557300	NT	Homo sapiens complement component C3, beta polypeptide (C3B), mRNA
4878	17906	30228	3.35	7.0E-89	AL045748.1	EST_HUMAN	DKFZP434E249 J1 434 (synonym: Hhes3) Homo sapiens cDNA clone DKFZP434E249 5'
5345	18148	30827	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
5345	18148	30828	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
6250	18024	31897	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
6250	18024	31898	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
7398	20076	33156	2.08	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 KD) (ARPC1A), mRNA
7779	20474	33586	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
6584	22237	35421	0.6	7.0E-89	AB011133.1	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10429	23075	36256	1.11	7.0E-89	X62048.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
10429	23075	36257	1.11	7.0E-89	X62048.1	NT	H. sapiens Wscl hu gene
10445	23091	36320	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10445	23091	36321	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
11203	23987	37154	1.45	7.0E-89	M59783.1	NT	Human aldose reductase (AR) gene, segment 2
12774	25028	40028	1.7	7.0E-89	U87927.1	NT	Human ascorbate hydratase (ACO2) gene, exon 2
1002	13782	28423	0.73	8.0E-89	6803114	NT	Homo sapiens inner membrane protein, mitochondrial (IMMT), mRNA
2210	14938	27676	1.27	8.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP-4 homolog (PRP4), mRNA
2434	15155	27688	1.06	8.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3), mRNA
2434	15155	27689	1.06	8.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3), mRNA
3515	16271	28925	0.86	8.0E-89	7691817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4593	17328	29854	3.02	6.0E-89	AB007898.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4593	17328	29855	3.02	6.0E-89	AB007898.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5100	17819	30439	0.81	8.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5100	17819	30437	0.81	8.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5016	17737	30345	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP250383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TOBA Homo sapiens cDNA clone TCBAP250383
5016	17737	30346	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP250383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TOBA Homo sapiens cDNA clone TCBAP250383

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7487	20159	33251	1.95	4.0E-89	BE762749.1	EST_HUMAN	QV5-NT0022-080800-219-g03 NT0022 Homo sapiens cDNA
11088	23758	37034	1.56	4.0E-89	A1798672.1	EST_HUMAN	we01c03.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2348452 3'
2870	15946	28289	1.51	3.0E-89	AW970181.1	EST_HUMAN	EST398280 IMAGE resequenced, MAGN Homo sapiens cDNA
7040	19731	32700	1.26	3.0E-89	A1217359.1	EST_HUMAN	qht17b08.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
10502	23148	36374	0.48	3.0E-89	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10702	23369	36630	2.34	3.0E-89	N57357.1	EST_HUMAN	Yw68611.1 Soares_piacenta_80bweeka_ZNHP8696W Homo sapiens cDNA clone IMAGE:259148 5' similar to SW:P14K HUMAN P42386 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA;
123	13184	25832	0.87	2.0E-89	7709870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
123	13184	25833	0.87	2.0E-89	7709870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25832	1.56	2.0E-89	7709870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25833	1.55	2.0E-89	7709870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
517	13301	25923	3.17	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2883	15650	28293	1.53	2.0E-89	A1222068.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
3540	16296	28946	1.01	2.0E-89	AA759149.1	EST_HUMAN	sh70d03.x1 Soares_testis_NHT Homo sapiens cDNA clone 1320688 3'
3540	16296	28947	1.01	2.0E-89	AA759149.1	EST_HUMAN	sh70d03.x1 Soares_testis_NHT Homo sapiens cDNA clone 1320688 3'
4126	16887	29494	1.26	2.0E-89	AF089897.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4133	16875	29504	5.16	2.0E-89	X38742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exon 10-11
4133	16875	29505	5.16	2.0E-89	X38742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exon 10-11
4315	17054	29879	0.76	2.0E-89	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4463	17189	29826	1.1	2.0E-89	AJ007378.1	NT	Homo sapiens GGT gene, exon 5
5259	18068		0.86	2.0E-89	BE541744.1	EST_HUMAN	801066098F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
6393	18193	30886	2.9	2.0E-89	AB007548.1	NT	Homo sapiens gene for LEGT2, complete cds
5702	18496	31418	1.61	2.0E-89	U03985.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6116	18984	31661	0.63	2.0E-89	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7687	20237	33341	5.93	2.0E-89	U81004.1	NT	Human GT24 (GT24) mRNA, partial cds
7835	20530	33657	3.07	2.0E-89	11428801	NT	Homo sapiens solute carrier family 24 (sodium/potassium/cadmium exchanger), member 2 (SLC24A2), mRNA
8316	21009	34146	1.02	2.0E-89	AJ24503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9152	21883	35052	0.6	2.0E-89	AB037754.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
9710	22361	35557	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5
9710	22361	35598	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11346	24038	37339	2.83	2.0E-80	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11448	23216	36447	2.3	2.0E-80	6720667	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
11562	24161	37472	5.03	2.0E-80	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11718	24312	37636	2.11	2.0E-89	U10892.1	NT	Human IMAGE:7 antigen (IMAGE7) pseudogene, complete cds
11570	24169	37483	5.97	1.0E-89	BF198052.1	EST_HUMAN	h81d09.x1 NCL CGAP_Ki411 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:064778 054778
11570	24169	37484	5.97	1.0E-89	BF198052.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
8128	20820	33956	1.57	9.0E-90	AL163246.2	NT	h81d09.x1 NCL CGAP_Ki411 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:064778 054778
8126	20820	33957	1.57	9.0E-90	AL163246.2	NT	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
1041	13801	28459	2.23	8.0E-90	AL163246.2	NT	h81d09.x1 NCL CGAP_Ki411 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:064778 054778
1042	13801	28459	2.9	8.0E-90	AL163246.2	NT	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
1307	15565	26731	3.78	8.0E-90	BE670661.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
1307	15565	26732	3.78	8.0E-90	BE670661.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
8468	21150	34293	0.55	8.0E-90	BE177830.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10599	23293	36531	1.52	8.0E-90	A1222065.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10599	23293	36532	1.52	8.0E-90	A1222065.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
10963	23639	36889	1.32	8.0E-90	AA705222.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
10963	23639	36890	1.32	8.0E-90	AA705222.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
816	13587		4.12	7.0E-90	AF223391.1	NT	IMAGE:461442 3'
8323	21016		2.08	7.0E-90	AA752377.1	EST_HUMAN	IMAGE:461442 3'
8895	21556	34701	1.02	7.0E-90	BE962626.2	EST_HUMAN	IMAGE:461442 3'
8895	21556	34702	1.82	7.0E-90	BE962626.2	EST_HUMAN	IMAGE:461442 3'
10036	22984	35001	1.9	7.0E-90	H68846.1	EST_HUMAN	IMAGE:461442 3'
10036	22984	35002	1.9	7.0E-90	H68849.1	EST_HUMAN	IMAGE:461442 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
10352	22898	36216	1.17	7.0E-90	BF520398.1	EST_HUMAN	902071208F1 NCL_GCAP_Bim64 Homo sapiens cDNA clone IMAGE:4214257 5'
4201	18942	29593	9.12	6.0E-90	8922398	NT	Homo sapiens hypoxanthine phosphoribosyl transferase 1 (HGPRT) mRNA
4201	18942	29593	9.12	6.0E-90	8922398	NT	Homo sapiens hypoxanthine phosphoribosyl transferase 1 (HGPRT) mRNA
5884	18979	31625	3.27	6.0E-90	U77700.1	NT	Homo sapiens HaGGN1 mRNA, partial cds
5884	18979	31626	3.27	6.0E-90	U77700.1	NT	Homo sapiens HaGGN1 mRNA, partial cds
8226	20919	34056	2.75	6.0E-90	4504794	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
8226	20919	34057	2.75	6.0E-90	4504794	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
161	12966	AB036344.1	18.84	5.0E-90	AB036344.1	NT	Homo sapiens TOL6 gene, exon 1-10b
1170	13924	26586	3.08	5.0E-90	U90226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1813	14553	27287	1.47	5.0E-90	A222095.1	EST_HUMAN	q96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb-J04131 GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN); contains ALU repetitive element
1813	14553	27288	1.47	5.0E-90	A222095.1	EST_HUMAN	q96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb-J04131 GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN); contains ALU repetitive element
2680	16274	28011	2.79	5.0E-90	AF114487.1	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4953	17238	28871	2.06	5.0E-90	45008354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4622	17357	29682	0.98	5.0E-90	AL136549.1	EST_HUMAN	DKFZp782P1616 J1 782 (synonym: hmal2) Homo sapiens cDNA clone DKFZp782P1616 5'
5504	18302	31203	2.84	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5600	18402	31318	1.31	6.0E-90	A3015677.1	NT	Homo sapiens ELKS mRNA, complete cds
5678	18302	31203	2.39	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6831	18393	32407	0.74	5.0E-90	9910395	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC569834), mRNA
6831	18393	32408	0.74	5.0E-90	9910395	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC569834), mRNA
7114	18802	32866	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32867	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32868	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32869	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32870	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32871	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32872	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32873	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32874	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32875	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32876	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32877	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32878	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32879	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32880	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32881	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32882	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32883	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32884	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32885	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
71							

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10344	22961	36209	9.16	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10402	23048	36284	0.64	5.0E-90	7862051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10402	23048	36285	0.64	5.0E-90	7862051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11731	24324	37048	2.41	5.0E-90	7862047	NT	Homo sapiens KIAA0305 gene product (KIAA0305), mRNA
12691	24948		2.08	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12641	24938		4.43	5.0E-90	AF015236.1	EST_HUMAN	af78005.x1 Barbed extra HPLR36 Homo sapiens cDNA clone IMAGE:2128761 3'
295	13101	25742	1.93	4.0E-90	AF231620.1	NT	Homo sapiens chromosome 21 unknown mRNA
295	13101	25743	1.93	4.0E-90	AF231620.1	NT	Homo sapiens chromosome 21 unknown mRNA
1064	13922	26482	3.28	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1884	14428	27125	8.09	4.0E-90	X09033.1	NT	H. sapiens gene encoding diacylglycerol receptor tyrosine kinase, exon 16
2992	15758	26405	0.96	4.0E-90	AF007544.1	NT	Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds
3023	15789	26438	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3023	15789	26437	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4808	17343	26975	7.86	4.0E-90	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4743	17478	30109	2.17	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4768	17800	30123	2.33	4.0E-90	M95967.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 8
7751	20447	33570	1.08	3.0E-90	BF516168.1	EST_HUMAN	U1H-BW1-amy-04-Q-U1 st NCL CGAP, Sub7 Homo sapiens cDNA clone IMAGE:3063839 3'
7751	20447	33571	1.08	3.0E-90	BF516168.1	EST_HUMAN	U1H-BW1-amy-04-Q-U1 st NCL CGAP, Sub7 Homo sapiens cDNA clone IMAGE:3063839 3'
11630	24227	27651	17.81	3.0E-90	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3058147 5'
208	13020	26692	4.71	2.0E-90	BE537613.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:345834 5'
1150	13906	26587	2.87	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMGP17), mRNA
1150	13905	26588	2.87	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMGP17), mRNA
3826	16577	29208	1.7	2.0E-90	AH38213.1	EST_HUMAN	qc54002.x1 Soares_pleasant, BioWeeks, 2NH/HP860W Homo sapiens cDNA clone IMAGE:1713410 3'
4840	17374	30006	1.06	2.0E-90	AB008627.1	NT	similar to SW-OLF3 MOUSE P23275 OLFACTORY RECEPTOR OR3. ;
4853	17853	30205	7.31	2.0E-90	6728955	NT	Homo sapiens mRNA for KIAA0285 gene, partial cds
5685	18498	31410	4.88	2.0E-90	AW672888.1	EST_HUMAN	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
9889	22341	35534	4.78	2.0E-90	11427320	NT	HYPOTHETICAL 35.5 KD PROTEIN. ;
9889	22341	35535	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67KD, ribosomal protein SA) (H. sapiens) (LOC33484), mRNA
9889	22341	35535	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67KD, ribosomal protein SA) (H. sapiens) (LOC33484), mRNA
9889	22510	35706	1.37	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMB1 Homo sapiens cDNA clone HEMB1004795 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9890	22510	35707	1.37	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004785 5'
11447	23214	36446	2.8	2.0E-90	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
270	13078	25720	4.55	1.0E-90	4502160	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant), Alzheimer disease (APP), mRNA
365	15516	25805	1.36	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
366	15516	25805	1.43	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
679	13454	26098	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
679	13454	26098	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	13487	26137	13.22	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	13487	26137	13.22	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1058	13946	26138	2.47	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1283	14033	26703	5.56	1.0E-90	AF099154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1283	14033	26704	5.56	1.0E-90	AF099154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1662	14408	26704	1.23	1.0E-90	BE378894.1	EST_HUMAN	801169563F2 NIH/MGC 53 Homo sapiens cDNA clone IMAGE:3511118 5'
1895	14532	27342	3.33	1.0E-90	11420314	NT	Homo sapiens similar to SALL1 (sal) (Drosophila)-like (LOC57167), mRNA
2658	19526	28271	6.48	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (GRORF2), mRNA
4398	17126	29758	1.29	1.0E-90	AF167340.1	NT	Homo sapiens soluble intracellular 1 receptor accessory protein (LIRAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5598	18385	31295	2.58	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5746	18538	31460	0.96	1.0E-90	11426910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6473	19240	32240	0.57	1.0E-90	11419405	NT	Homo sapiens cyclochrome P450, 51 (uncoupled 14-alpha-demethylase) (CYP51), mRNA
6973	19455	32475	0.68	1.0E-90	U61934.1	NT	Homo sapiens cytochrome P450 domain factor-1 mRNA, complete cds
7204	19899	32565	0.64	1.0E-90	8006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A), mRNA
7571	20240	33345	2.77	1.0E-90	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC14A6), mRNA
8720	21412	34535	3.73	1.0E-90	11422288	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9183	21863	34535	0.68	1.0E-90	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9215	21864	35082	1.53	1.0E-90	11422109	NT	Homo sapiens G91-15 protein (LOC51006), mRNA
9215	21864	35083	1.53	1.0E-90	11422109	NT	Homo sapiens G91-15 protein (LOC51006), mRNA
10687	23253	36490	1.5	1.0E-90	R25886.1	EST_HUMAN	Y94411.72 Soares infant brain INB Homo sapiens cDNA clone IMAGE:36477 5'
10687	23253	36490	1.78	1.0E-90	J04474.1	NT	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end
12580	24804	31001	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P20M, complete cds
12580	24804	31002	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P20M, complete cds
4172	19812	26642	0	8.0E-91	D12244.1	EST_HUMAN	HUM0005381 Liver HepG2 cell line. Homo sapiens cDNA clone c381 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1427	14174	26859	1.06	7.0E-01	AF033768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP80 mRNA, partial cds
8205	20856	34036	1.8	7.0E-01	11419234	NT	Homo sapiens minkoth, ring finger protein, 1 (MKRN1), mRNA
10188	22846	36082	0.88	7.0E-01	AB04181.1	EST_HUMAN	CH-BT043-090289-076 BT043 Homo sapiens cDNA
3467	18223	28877	1.83	5.0E-01	AA02784.1	EST_HUMAN	ZBR004.1 Soresb, fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:448015 3'
4480	17215	28840	11.73	5.0E-01	AU143539.1	EST_HUMAN	AU143539 Y7AA1 Homo sapiens cDNA clone Y7AA1002087 5'
4480	17215	28841	11.73	5.0E-01	AU143539.1	EST_HUMAN	AU143539 Y7AA1 Homo sapiens cDNA clone Y7AA1002087 5'
4757	17486	30116	0.87	5.0E-01	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4757	17488	30117	0.97	5.0E-01	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6519	18285	32289	1.25	5.0E-01	A1870995.1	EST_HUMAN	eu4909.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2618121 3' similar to SW:ASFG_FLAME Q47868 M4(BETA-N-ACETYL-GLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR ;
8105	20789	33831	1.2	5.0E-01	BF314682.1	EST_HUMAN	B01901624F1 NH1_MGC_19 Homo sapiens cDNA clone IMAGE:4130633 5'
8958	21350	34465	1.52	5.0E-01	AV646878.1	EST_HUMAN	AV646878 GLC Homo sapiens cDNA clone GLC8YF08 3'
8958	21350	34466	1.52	5.0E-01	AV646878.1	EST_HUMAN	AV646878 GLC Homo sapiens cDNA clone GLC8YF08 3'
12612	24918		1.74	5.0E-01	AH93506.1	EST_HUMAN	q97011.x1 Soresb, fetal lung, NIH1_10W Homo sapiens cDNA clone IMAGE:1744385 3' similar to contains MIR.12 MIR MIR repetitive element;
3187	15660	28511	1.69	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3187	15660	28512	1.69	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
10848	23530	36776	4.49	4.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12084	24596	31082	1.96	4.0E-01	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #362205) Homo sapiens cDNA clone HHCN030 similar to Retrovirus-related gag polyprotein
12084	24596	31127	1.96	4.0E-01	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #362205) Homo sapiens cDNA clone HHCN030 similar to Retrovirus-related gag polyprotein
1813	14390	27046	3.07	3.0E-01	11430183	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1813	14390	27050	3.07	3.0E-01	11430183	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3334	16064	28746	1.62	3.0E-01	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3455	16211	28863	3.39	3.0E-01	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3455	16211	28864	3.39	3.0E-01	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3768	16520	29159	1.45	3.0E-01	AF084630.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4551	17286	29015	3.70	3.0E-01	M30638.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5800	18395	31305	1.27	3.0E-01	11434684	NT	Homo sapiens epidermal secretory protein (18 kD) (HE1), mRNA
8212	18987		2.48	3.0E-01	4502740	NT	Homo sapiens cyclin-dependent kinase 5 (CDK5), mRNA
6488	19255	32256	5.82	3.0E-01	11487611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6488	19255	32257	5.82	3.0E-01	11407811	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7538	20208	33306	4.97	3.0E-01	U86950.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 10 and 11
7538	20208	33307	4.97	3.0E-01	U86950.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 10 and 11
8699	21361	34506	2.58	3.0E-01	D16464.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9188	21898	38023	2.83	3.0E-01	AB011160.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
10803	23498	36723	1.41	3.0E-01	AB032176.2	NT	Homo sapiens EH42 mRNA, complete cds
11160	23827	37105	1.66	3.0E-01	AB020003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11160	23827	37106	1.66	3.0E-01	AB020003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12335	24749	31057	2	3.0E-01	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12867	17898	30489	4.35	3.0E-01	AF169695.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12867	17898	30490	4.35	3.0E-01	AF169695.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
47	12876	26501	5.06	1.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1223	13973	26845	6.31	1.0E-01	AY446748.1	EST_HUMAN	UIH-BIG-aks-01-q-U1-1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5328	18131	30790	0.97	1.0E-01	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
6743	19577	32610	2.26	1.0E-01	BF346182.1	EST_HUMAN	602022088F1 NCI CGAP Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
6743	19577	32611	2.26	1.0E-01	BF346182.1	EST_HUMAN	602022088F1 NCI CGAP Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
12245	25340		1.35	1.0E-01	H18212.1	EST_HUMAN	ym30e03.J1 Soares Infant brain 1NB Homo sapiens cDNA clone IMAGE:49587 5'
1219	13970	26839	9.06	9.0E-02	AJ001689.1	NT	Homo sapiens NKX2D gene, exon 10
1219	13970	26840	9.06	9.0E-02	AJ001689.1	NT	Homo sapiens NKX2D gene, exon 10
5120	17838	30454	0.9	9.0E-02	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5378	18176	30887	4.86	9.0E-02	J03007.1	NT	Human Net-K+ ATPase alpha-subunit mRNA, partial cds
5518	18316	31217	2.83	9.0E-02	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
6882	19132	32127	4.03	9.0E-02	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7756	20452	33576	7.17	9.0E-02	AJ260568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
7756	20452	33577	7.17	9.0E-02	AJ260568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8272	20696	34107	0.92	9.0E-02	AB040945.1	NT	Homo sapiens mRNA for KIAA1612 protein, partial cds
8272	20696	34108	0.92	9.0E-02	AB040945.1	NT	Homo sapiens mRNA for KIAA1612 protein, partial cds
9174	21844	35010	1.95	9.0E-02	11422068	NT	Homo sapiens beta-1A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11161	23828		1.95	9.0E-02	7706988	NT	Homo sapiens RINB8 (RINB8), mRNA
91	12917	25554	2.26	8.0E-02	W28347.1	EST_HUMAN	2073 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
279	13086	25728	3.20	8.0E-02	BE360363.1	EST_HUMAN	8012735/3f1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614687 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5041	17780	30374	0.98	8.0E-92	AW157571.1	EST_HUMAN	eu8308.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5308	18113	30771	0.85	8.0E-92	AB048820.1	NT	TR-060302 060302 KIAA0555 PROTEIN, contains element MER22 repetitive element;
							Homo sapiens mRNA for KIAA1800 protein, partial cds
5411	18210	30918	0.97	8.0E-92	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
6451	19219	32217	1.31	8.0E-92	AJ000979.1	NT	cds
6455	19223	32222	0.92	8.0E-92	AF179428.1	NT	Homo sapiens MCP-4 gene
7890	20685		0.55	8.0E-92	U141690.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
8324	21017	34152	3.91	8.0E-92	L04108.1	NT	Homo sapiens AIMP1 protein (LOC61515), mRNA
8324	21017	34153	3.91	8.0E-92	L04108.1	NT	Homo sapiens AIMP1 protein (LOC61515), mRNA
8422	21115	34253	0.58	8.0E-92	U1428568	NT	Human lens membrane protein (mp19) gene, exon 11
8990	21631	34501	2.82	8.0E-92	AB014511.1	NT	Human lens membrane protein (mp19) gene, exon 11
9025	22573	35771	1.18	8.0E-92	Y13829.1	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
							Homo sapiens mRNA for KIAA0811 protein, partial cds
							Homo sapiens mRNA for MBNL protein
10707	23397	36638	3.2	8.0E-92	AF074383.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
							Homo sapiens dihydropyrimidine S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLS1)
11333	24024	37329	1.81	8.0E-92	4503340	NT	mRNA
23	12851	25466	1.82	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
64	12892	25525	1.01	7.0E-92	MG0078.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
230	15338	25680	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
230	15338	25681	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
577	13357		1.34	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Suprase truncated isoform mRNA, complete cds
1257	14006	26675	1.99	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2184	14913	27645	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2184	14913	27646	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2569	15282	28020	1.46	7.0E-92	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2728	15435	28171	2.2	7.0E-92	6005736	NT	Homo sapiens NRAS-related gene (DTS155E), mRNA
2757	15482	28205	1.22	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
3340	17877	28750	1.06	7.0E-92	4607600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3340	17877	28751	1.06	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2880]
4647	17282	28912	2.99	7.0E-92	S71824.1	NT	nt
4547	17282	28913	2.59	7.0E-92	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2880]

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4944	17671	30280	0.98	7.0E-02	AI163281.2	NT	Homo sapiens chromosome 21 segment HS21O081
5180	17980	30504	6.05	7.0E-02	AA446206.1	EST_HUMAN	zif96B12/J Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1582	14328	28308	1.29	5.0E-02	BE330982.1	EST_HUMAN	601283012/F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3905018 5'
2768	15473	28215	1.6	3.0E-02	BE906714.1	EST_HUMAN	601501242/F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902369 5'
5768	18577	31506	2.8	3.0E-02	AA378538.1	EST_HUMAN	EST191020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
10804	23355	35894	2.72	3.0E-02	X15904.1	NT	Human mRNA for alpha-actinin
10964	23355	35895	2.72	3.0E-02	X15904.1	NT	Human mRNA for alpha-actinin
24	12852	25467	1.06	2.0E-02	A601888	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
174	12868	25625	3.67	2.0E-02	11422946	NT	Homo sapiens hypothetical protein J1462023.2 (J1462023.2), mRNA
174	12966	25625	3.67	2.0E-02	11422946	NT	Homo sapiens hypothetical protein J1462023.2 (J1462023.2), mRNA
732	13506	28102	1.33	2.0E-02	BE296190.1	EST_HUMAN	601118337/F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
732	13506	28103	1.33	2.0E-02	BE296190.1	EST_HUMAN	601118337/F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1709	14452	27378	2.22	2.0E-02	S78683.1	NT	interleukin-related (human, Genbank, 2416 nt)
1920	14995	27378	2.36	2.0E-02	AB181819.1	EST_HUMAN	wk27007.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1920	14995	27378	2.36	2.0E-02	AB181819.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
1920	14995	27378	2.36	2.0E-02	AB181819.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2041	14716	27504	5.58	2.0E-02	A509800	NT	Homo sapiens syndecan 4 (amphiglycan, rydubom) (SDC4) mRNA
2041	15774	28113	19.2	2.0E-02	B012457	NT	Homo sapiens calcitriol binding protein 1 (KOA00330), mRNA
3600	16353	28982	2.01	2.0E-02	AF231916.1	NT	Homo sapiens chromosome 21 unknown mRNA
3600	16353	28982	2.01	2.0E-02	AF231916.1	NT	Homo sapiens chromosome 21 unknown mRNA
3600	16353	28982	2.01	2.0E-02	AF231916.1	NT	Homo sapiens chromosome 21 unknown mRNA
3674	16427	28008	5.57	2.0E-02	5803180	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp60-organizing protein) (STP-1), mRNA
4256	16907	29628	1.23	2.0E-02	M10978.1	NT	Human endogenous retroviral DNA (4-t), complete proviral segment
4256	16907	29628	1.23	2.0E-02	M10978.1	NT	DKFZdp343G0414.J1 t34 (synonym: hies3) Homo sapiens cDNA clone DKFZdp343G0414.5'
4638	17984	31983	0.84	2.0E-02	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
5673	19408	31983	0.84	2.0E-02	AF016535.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
6206	19894	31983	0.6	2.0E-02	4504756	NT	Homo sapiens mRNA for KIAA1098 protein, partial cds
6517	19282	32285	3.03	2.0E-02	A5029981.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
7364	20045	3784	0.81	2.0E-02	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
7364	20045	3784	0.81	2.0E-02	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
7364	20045	3784	0.81	2.0E-02	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8764	21446	34584	1.09	2.0E-02	AW340174.1	EST_HUMAN	002711 PRO-POL-DUTRIASE POLYPHOSEIN ;
10856	23350	36587	4.53	2.0E-02	11434900	NT	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10930	23610	36859	1.48	2.0E-92	11434780	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
10978	25663	36906	2.54	2.0E-92	5903103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12439	24809	31048	2.89	2.0E-92	AB028016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12987	15374	28113	2.51	2.0E-92	6912467	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1842	14580	27204	1.13	1.0E-92	R78078.1	EST_HUMAN	y80608.1 Soares placenta IN2HP Homo sapiens cDNA clone IMAGE:145574.5'
1842	14580	27295	1.13	1.0E-92	R78078.1	EST_HUMAN	y80608.1 Soares placenta IN2HP Homo sapiens cDNA clone IMAGE:145574.5'
2066	14798	27526	8.83	1.0E-92	4508688	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1), mRNA
8145	20839	33971	1.29	1.0E-92	BE439626.1	EST_HUMAN	HTM1-288F HTMT Homo sapiens cDNA
							Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element/contains element
9062	21751	34910	3.82	1.0E-92	A180356.1	EST_HUMAN	MER17 repetitive element;
							Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element/contains element
9062	21751	34911	3.82	1.0E-92	A180356.1	EST_HUMAN	MER17 repetitive element;
2023	14768	27487	3	9.0E-93	AU121881.1	EST_HUMAN	AU121881 MAMMA1 Homo sapiens cDNA clone IMAGE:2107467.3' similar to SW:PTNF_HUMAN
2035	14770		5.48	9.0E-93	AA316723.1	EST_HUMAN	EST189414 HCC cell line (metastasis to liver in mouse) // Homo sapiens cDNA 5' and similar to ribosomal protein L29
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2653	18393		1.45	9.0E-93	AF223391.1	NT	601281167F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832.5'
3602	10355	28595	1.11	9.0E-93	BE388571.1	EST_HUMAN	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
11646	24242		9.71	9.0E-93	11418528	NT	U1H-B10-sub-H-06-0-U1.s1 NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2706371.3'
6351	19121	32112	0.58	8.0E-93	AW014042.1	EST_HUMAN	U1H-B10-sub-H-06-0-U1.s1 NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2706371.3'
6351	19121	32113	0.68	8.0E-93	AW014042.1	EST_HUMAN	U1H-B10-sub-H-06-0-U1.s1 NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2706371.3'
6406	10282	32263	2.51	8.0E-93	BF036941.1	EST_HUMAN	601400821F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863308.5'
238	13048	25687	9.92	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3073	19839	29462	0.94	8.0E-93	11526178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6581	18344	32388	1.02	6.0E-93	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6817	18478	32501	1.12	6.0E-93	AF066771.1	NT	Homo sapiens PTH-responsive osteocalcin B1 protein (B1), mRNA, complete cds
1359	14107	28782	3.51	5.0E-93	AB014611.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
1386	14133	28907	7.28	6.0E-93	AB074184.1	EST_HUMAN	wc06008.x1 NCI CGAP_P728 Homo sapiens cDNA clone IMAGE:2314670.3'
1386	14133	28908	7.28	5.0E-93	AB074184.1	EST_HUMAN	wc06008.x1 NCI CGAP_P728 Homo sapiens cDNA clone IMAGE:2314670.3'
3227	15990	28943	2.98	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5710	18503	31425	1.01	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6018	18799		1.02	5.0E-03	AF045553.1	NT	Homo sapiens wbcort1 (WBCOR1) and wbcort2 (WBCOR2) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) genes, complete cds
7614	20280	33388	3.6	5.0E-03	AF007136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8503	21195	34339	1	5.0E-03	4557528	NT	Homo sapiens discs, large (Disco-large) homolog 2 (chapsyn-110) (DLG2) mRNA
8503	21195	34339	1	5.0E-03	4557528	NT	Homo sapiens discs, large (Disco-large) homolog 2 (chapsyn-110) (DLG2) mRNA
8623	22176	35980	2.16	5.0E-03	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9707	22358	35554	1.25	5.0E-03	8032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
9970	22618	35821	1.9	5.0E-03	AF060313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
10727	23415	36666	2.25	5.0E-03	11436588	NT	Homo sapiens nucleobindin 2 (NUCB2) mRNA
12343	25052	30659	2.15	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
12005	25052	30659	1.44	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
86	12912		0.52	4.0E-03	AA458633.1	EST_HUMAN	z56060.51 Soares_beds_NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW:CLPA_RAT
432	13218	25983	1.39	4.0E-03	4557870	NT	P37387 CALPONIN, ACIDIC ISOFORM 1
432	13218	25984	1.39	4.0E-03	4557870	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	13627	26186	1.67	4.0E-03	7657454	NT	Homo sapiens p53 (p53) homolog 1, containing BCR1 domain (PES1), mRNA
755	13627	26187	1.67	4.0E-03	7657454	NT	Homo sapiens p53 (p53) homolog 1, containing BCR1 domain (PES1), mRNA
1160	13914	26577	1.53	4.0E-03	8622688	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
1970	14709	27424	4.3	4.0E-03	AF047677.1	NT	Homo sapiens DNA polymerase delta catalytic subunit (REV3) mRNA, complete cds
2241	14900	27707	0.96	4.0E-03	AF167476.1	NT	Homo sapiens DNA polymerase delta catalytic subunit (REV3) mRNA, complete cds
2397	15118	27855	1.55	4.0E-03	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3683	16308	28658	0.73	4.0E-03	7705398	NT	Homo sapiens tumor antigen SLP-3p (HCC8), mRNA
4026	16771	29403	1.67	4.0E-03	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5557	18354	31284	4.9	4.0E-03	T46894.1	EST_HUMAN	y64G12.11 Stratagene liver (837224) Homo sapiens cDNA clone IMAGE:78538 5' similar to similar to SP:AA4391 A44391 9ERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN
11078	23748	37023	5.17	4.0E-03	AV862051.1	EST_HUMAN	AV862051 GK6 Homo sapiens cDNA clone GK6DR17 5'
3843	16398	29036	7.35	3.0E-03	BF860680.1	EST_HUMAN	60224654F1 NIH_MGC 62 Homo sapiens cDNA clone IMAGE:4332036 5'
3843	16398	29036	7.35	3.0E-03	BF860680.1	EST_HUMAN	60224654F1 NIH_MGC 62 Homo sapiens cDNA clone IMAGE:4332036 5'
4210	16451		1.31	3.0E-03	AF225898.1	NT	Homo sapiens tenascin mRNA, complete cds
5907	18491	31412	0.79	3.0E-03	AI553863.1	EST_HUMAN	tt23y03.x1 NC1_CGAP_Bm28 Homo sapiens cDNA clone IMAGE:2169076 3'
5907	18491	31413	0.79	3.0E-03	AI553863.1	EST_HUMAN	tt23y03.x1 NC1_CGAP_Bm28 Homo sapiens cDNA clone IMAGE:2169076 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6498	19235	32236	1.21	3.0E-93	11425182	NT	Homo sapiens GGN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GGN5L2), mRNA
10703	23394	36631	4.27	3.0E-93	AB24829.1	EST_HUMAN	W602005.x1 NCI CGAP G08 Homo sapiens cDNA clone IMAGE:2304486 3'
185	12968	25637	7.61	2.0E-93	AB016810.1	NT	Chlorobacillus edwardsii mRNA for ribosomal protein S4X, complete cds
185	12968	25638	7.51	2.0E-93	AB016810.1	NT	Chlorobacillus edwardsii mRNA for ribosomal protein S4X, complete cds
315	13119	25758	9.38	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
316	13119	25758	9.48	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1810	14357	27046	1.33	2.0E-93	AF225860.1	NT	Homo sapiens brain mRNA, complete cds
2120	14857	27987	1.33	2.0E-93	U40763.1	NT	Human Ck-associated RS cyclophilin CARS-Oye mRNA, complete cds
5332	18135	30794	1.96	2.0E-93	BE262982.1	EST_HUMAN	601117586F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3358220 5'
5342	18145	30824	5.42	2.0E-93	AW984385.1	EST_HUMAN	EST376458 IMAGE resequenced, MAGH Homo sapiens cDNA
5455	18254	31256	0.96	2.0E-93	BF361460.1	EST_HUMAN	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5550	18347	31256	1.04	2.0E-93	BF361460.1	EST_HUMAN	QV3-HT0513-290300-128-J04 HT0513 Homo sapiens cDNA
5555	18382	31270	1.13	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
6594	19347	31270	0.85	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
11014	23686	38046	1.1	2.0E-93	AW502002.1	EST_HUMAN	U1HF-BND-aka-g-06-0-UL1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3078329 5'
11014	23686	38047	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12233	24698	38047	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12314	24736	31256	2.64	2.0E-93	AA126735.1	EST_HUMAN	z29c10.x1 Soares_pregnant uterus NbHPU Homo sapiens cDNA clone IMAGE:303346 3'
12571	24898	31256	2.17	2.0E-93	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
101	12827	25584	10.79	2.0E-93	BF035327.1	EST_HUMAN	601435531F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3862088 5'
101	12827	25585	2.29	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
605	13289	25623	4.25	1.0E-93	7657016	NT	Homo sapiens CTR1 pseudogene
586	13398	25994	4.57	1.0E-93	AI46755.1	EST_HUMAN	Homo sapiens hypothetical protein (D3328E19.G1.1), mRNA
852	13622	26282	8.91	1.0E-93	D67675.1	NT	ZINC FINGER PROTEIN 1
1144	13689	26500	2.9	1.0E-93	4503872	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1215	13695	26632	7.65	1.0E-93	8923270	NT	Homo sapiens glutamate decarboxylase 1 (brain, 87KD) (GAD1), transcript variant GAD57, mRNA
1215	13695	26633	7.65	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1322	14071	26744	1.5	1.0E-93	AB046783.1	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1324	14073	26746	0.90	1.0E-93	AF167706.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
2337	15081	27798	1.33	1.0E-93	AF231981.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
							Homo sapiens long chain polynaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2466	15184	27924	1.7	1.0E-03	AF050066.1	NT	Homo sapiens MHC class I region
2511	13226		0.96	1.0E-03	AL137200.1	NT	Novel human gene mapping to chromosome 1
2826	14022	28689	1.47	1.0E-03	BE297369.1	EST_HUMAN	601177689F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:353285 5'
2826	14022	28680	1.47	1.0E-03	BE297368.1	EST_HUMAN	601177689F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:353285 5'
2834	15700	28349	7.48	1.0E-03	D87975.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3210	19673		1.27	1.0E-03	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4395	17132	29763	2.6	1.0E-03	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5479	18278	31173	2.38	1.0E-03	U78509.1	NT	Homo sapiens glucocorticoid receptor (GR) gene, intron D, exon 5, and intron E
5479	18278	31174	2.38	1.0E-03	U78509.1	NT	Homo sapiens glucocorticoid receptor (GR) gene, intron D, exon 5, and intron E
5678	18472	31389	0.96	1.0E-03	AF227138.1	NT	Homo sapiens candidate taste receptor 12R14 gene, complete cds
8625	18614	31546	10.32	1.0E-03	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Wabon disease) (NF1) mRNA
8104	18832	31850	1.4	1.0E-03	7062241	NT	Homo sapiens KIAA0672 gene product (KIAA0672). mRNA
8594	19611	32950	2.01	1.0E-03	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1). mRNA
7150	19837	32907	3.49	1.0E-03	D42072.1	NT	Human mRNA for NFI N-isoform-exon11, complete cds
8159	20952	33984	2.54	1.0E-03	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8441	21133	34289	1.2	1.0E-03	Y10183.1	NT	H. sapiens mRNA for MEMO protein
8547	21239	34352	1.38	1.0E-03	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
8552	20427	33542	1.79	1.0E-03	AB040918.1	NT	Homo sapiens Trif isoform mRNA, complete cds
8306	20427	33546	1.28	1.0E-03	AF091395.1	NT	Homo sapiens Trif isoform mRNA, complete cds
9488	22141	35319	8.29	1.0E-03	X13474.1	NT	Human PrkA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9488	22141	35320	8.29	1.0E-03	X13474.1	NT	Human PrkA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9625	22278	35467	0.79	1.0E-03	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10045	22663	35970	0.82	1.0E-03	11433948	NT	Homo sapiens tyrosine receptor 3 (RYR3). mRNA
12487	24846		1.84	1.0E-03	AJ280125.1	NT	Homo sapiens GGT1 gene, exon 1
12589	24890		2.84	1.0E-03	11417850	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12739	25391		1.46	1.0E-03	AF240786.1	NT	Homo sapiens chromosome 21 segment HS21C009
10492	23138		1.03	8.0E-04	AL163208.2	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
3944	10684	29353	1.63	6.0E-04	AF142482.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30747	4.23	5.0E-04	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30748	4.23	5.0E-04	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5957	18739	31698	4.22	5.0E-04	AA722434.1	EST_HUMAN	2887g06.a1 Soares_fetal_heart_NH9187W Homo sapiens cDNA clone IMAGE:406504 3'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
6810	10648	32983	1.28	5.0E-04	AI015900.1	EST_HUMAN	063305.s1 Soares fetal fetus NB2H1F8, 9w Homo sapiens cDNA clone IMAGE:1623369 3'
8337	21229	34371	1.11	5.0E-04	BF529115.1	EST_HUMAN	902042163.F1 NCI CGAP Bm87 Homo sapiens cDNA clone IMAGE:4180023 5'
12209	25394	30619	9.99	5.0E-04	T86398.1	EST_HUMAN	ydb004.s1 Soares fetal liver spleen N1F.S Homo sapiens cDNA clone IMAGE:16239 3'
12756	25017		1.5	5.0E-04	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12761	25021		1.88	5.0E-04	9658/24	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160KD subunit (CPSF1), mRNA
1834	14573		2.84	4.0E-04	U05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2662	15372	28111	0.92	4.0E-04	4509008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3061	18414	29053	1.38	4.0E-04	AW197851.1	EST_HUMAN	xr89F12.x1 Soares NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3661	18414	29054	1.38	4.0E-04	AW197851.1	EST_HUMAN	xr89F12.x1 Soares NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4069	17403	30038	2.87	4.0E-04	AI591312.1	EST_HUMAN	1W11F10.x1 NCI CGAP Bm82 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q16265 Q16265 PROTEIN TYROSINE PHOSPHATASE 1
6376	19145	32143	1.82	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6376	19145	32144	1.82	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19473		1.18	4.0E-04	L27388.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11431	23198	36420	1.5	4.0E-04	11545782	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
697	13375	26005	1.44	3.0E-04	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
704	13478	26127	0.88	3.0E-04	4502503	NT	Homo sapiens complement component 5 (C5) mRNA
1733	14475	27173	1.19	3.0E-04	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1733	14475	27174	1.19	3.0E-04	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1765	14507	27208	2.61	3.0E-04	4557658	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2073	14805	27534	1.27	3.0E-04	11427778	NT	Homo sapiens hepatic leukemia factor (HLF) mRNA
2073	14805	27536	1.27	3.0E-04	11427778	NT	Homo sapiens hepatic leukemia factor (HLF) mRNA
4196	18606	29934	0.83	3.0E-04	AA484806.1	EST_HUMAN	zaw6308.r1 Soares fetal fetus NB2H1F8, 9w Homo sapiens cDNA clone IMAGE:774782 5'
5565	18390	31301	3.41	3.0E-04	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6059	18839	31800	1.33	3.0E-04	AB011536.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6360	19130	32125	4	3.0E-04	11526228	NT	Homo sapiens mRNA for MEGF2, partial cds
7698	20359	33473	1.7	3.0E-04	4826863	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
8088	20782	33023	1.18	3.0E-04	AF152209.1	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8496	21178	34322	4.35	3.0E-04	AB014579.1	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
9492	22145	36326	5.23	3.0E-04	AF067042.1	NT	Homo sapiens protein for KIAA0076 protein, partial cds
11043	23713	36983	3.26	3.0E-04	4757821	NT	Homo sapiens phyocytin-1L mRNA, complete cds
11679	24274	37596	1.04	3.0E-04	U26711.1	NT	Homo sapiens apical transport of synaptic vesicles (ATSV) mRNA Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	'Top Hit Database Source	Top Hit Descriptor
9683	22305	35501	0.7	2.0E-04	A910393.1	EST_HUMAN	w30h11.x1 NCI_OGAP_C016 Homo sapiens cDNA clone IMAGE:2391813 3'
9683	22305	35502	0.7	2.0E-04	A910393.1	EST_HUMAN	w30h11.x1 NCI_OGAP_C016 Homo sapiens cDNA clone IMAGE:2391813 3'
144	12859	25901	1.94	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3098	19851	28492	2.07	1.0E-04	BE293433.1	EST_HUMAN	601111696F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3332559 5'
3098	19851	28493	2.07	1.0E-04	BE293433.1	EST_HUMAN	601111696F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3332559 5'
4328	17065	29984	1.7	1.0E-04	95089892	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
5682	18783	31727	0.64	1.0E-04	AE000239.1	NT	Escherichia coli K-12 MG1685 section 180 of 400 of the complete genome
6173	18850	31922	0.73	1.0E-04	AL040518.1	EST_HUMAN	DKFZp43G0314.L1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp43G0314.5'
6182	18859	31933	0.72	1.0E-04	H08270.1	EST_HUMAN	Y876702.1 Scores Triant brain N1B Homo sapiens cDNA clone IMAGE:45053 5'
8426	19194	32190	0.98	1.0E-04	AV725992.1	EST_HUMAN	AV725992 H1C Homo sapiens cDNA clone HT0806F05 5'
8012	20707	33836	0.63	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8012	20707	33837	0.63	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9155	21898	35054	2.76	1.0E-04	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9687	22339	35633	2.04	1.0E-04	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872098 5'
11000	23973	36929	3.08	1.0E-04	U66560.1	NT	Homo sapiens IL-1 receptor antagonist IL-1RA (IL-1RN) gene, alternatively spliced forms, complete cds
11288	23949	37245	2.82	1.0E-04	AI27244.1	EST_HUMAN	ap22602.x1 Schlier ciliendroglioma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q82846
11754	24345	37678	1.72	1.0E-04	11418871	NT	Q82846 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR ;
12390	12969	25601	1.45	1.0E-04	BE295714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12808	12859	25901	1.61	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1459	14206	26902	1.93	9.0E-05	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3163	15916	26561	1.45	9.0E-05	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3163	15916	26562	1.45	9.0E-05	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30781	1.33	9.0E-05	X02569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
6320	18123	30782	1.33	9.0E-05	X02569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
8150	20844	33974	1.77	9.0E-05	AF274753.1	NT	M.musculus glyt1 gene (score 1c and 2)
4499	17235	29995	3.19	6.0E-06	AI700998.1	EST_HUMAN	M.musculus glyt1 gene (score 1c and 2)
4499	17235	29997	3.18	8.0E-06	AI700998.1	EST_HUMAN	M.musculus glyt1 gene (score 1c and 2)
6849	19549	32579	0.76	8.0E-06	11419378	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
7141	19828	32987	1.76	8.0E-06	11428529	NT	w609e04.x1 NCI_OGAP_L124 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
7141	19828	32988	1.76	8.0E-06	11428529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
4499	17235	29995	3.19	6.0E-06	AI700998.1	EST_HUMAN	w609e04.x1 NCI_OGAP_L124 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
4499	17235	29997	3.18	8.0E-06	AI700998.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
6849	19549	32579	0.76	8.0E-06	11419378	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
7141	19828	32987	1.76	8.0E-06	11428529	NT	Homo sapiens proteasome (prosome, macropain) 28S subunit, non-ATPase, 11 (PSMD11), mRNA
7141	19828	32988	1.76	8.0E-06	11428529	NT	Homo sapiens proteasome (prosome, macropain) 28S subunit, non-ATPase, 11 (PSMD11), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8007	20791	33022	1.97	8.0E-05	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
9285	22019	35187	2	8.0E-05	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9285	22019	35188	2	8.0E-05	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9748	22399	35004	3.1	8.0E-05	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9778	22430		2.84	8.0E-05	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10135	22783	35994	0.8	8.0E-05	8845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila homolog) (EGR2), mRNA
10813	23307	38546	1.3	8.0E-05	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11486	24086	37377	1.86	8.0E-05	10694024	NT	Homo sapiens HCF-binding transcription factor ZNF1, mRNA
12535	24879		12.4	8.0E-05	AA620058.1	EST_HUMAN	zulf401.41 Soreses, testis, NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1.11 L1 repetitive element ;
289	13077	25718	32.81	7.0E-05	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
289	13077	25719	32.81	7.0E-05	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4333	17072	28701	5.18	7.0E-05	MA5708.1	NT	Homo sapiens Ly-6-like protein (CD58) mRNA, complete cds
4380	17117		1.3	7.0E-05	AL163245.2	NT	Homo sapiens chromosome 21 segment HS21C046
9117	21805	34871	1.31	4.0E-05	BE439025.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
5356	18159	30842	1.58	3.0E-05	BF520041.1	EST_HUMAN	602071149FT NCL CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4214147 5'
5988	25071	31294	0.83	3.0E-05	4603364	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7288	19952	33027	1.51	3.0E-05	AW658121.1	EST_HUMAN	EST370191 MAGE sequences, MAGE Homo sapiens cDNA
7288	19952	33028	1.51	3.0E-05	AW658121.1	EST_HUMAN	EST370191 MAGE sequences, MAGE Homo sapiens cDNA
8278	20672	34113	0.55	3.0E-05	AW157233.1	EST_HUMAN	eu63506.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:060463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE, [1].
8278	20672	34114	0.55	3.0E-05	AW157233.1	EST_HUMAN	eu63506.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:060463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE, [1].
9255	21934	35107	1.89	3.0E-05	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9255	21934	35108	1.89	3.0E-05	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9847	22280	35465	0.73	3.0E-05	BF213448.1	EST_HUMAN	6018462/2FT NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
10792	23475	38716	1.49	3.0E-05	R63190.1	EST_HUMAN	y87g11.1t Soreses fetal liver spliced 1NF.S Homo sapiens cDNA clone IMAGE:194468 5'
1359	14385	27072	2.31	2.0E-05	7682027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1639	14385	27073	2.31	2.0E-05	7682027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1934	14609	27384	2.51	2.0E-05	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
1937	14672	27388	1.92	2.0E-05	BE306973.1	EST_HUMAN	601312161 FNIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658682 5'
2428	15147	27890	2.22	2.0E-05	5453065	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2428	15147	27881	2.22	2.0E-05	5453065	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2468	15186	27925	3.28	2.0E-05	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2517	15233	27673	1.85	2.0E-05	4768423	NT	Homo sapiens glycine cleavage system protein H (emimodetyl carrier) (GCSH) mRNA
3155	15918	28584	1.88	2.0E-05	AF015452.1	NT	Homo sapiens Uarph-gamma mRNA, complete cds
3652	18307	28968	3.07	2.0E-05	7705900	NT	Homo sapiens uncoupler myosin-15 (LOC51188), mRNA
3452	18307	28957	3.07	2.0E-05	7705900	NT	Homo sapiens uncoupler myosin-15 (LOC51188), mRNA
3605	15558	28598	1.26	2.0E-05	AB037807.1	NT	Homo sapiens mRNA for KIAA1389 protein, partial cds
3732	16485	28122	0.88	2.0E-05	AL280284.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:1880648 3' similar to WP:123G7.4
4328	17067	29895	1.32	2.0E-05	7657185	NT	qm01602.x1 Soares_NIH-MPU_S1 Homo sapiens cDNA clone IMAGE:1880648 3' similar to WP:123G7.4
4978	17701	30308	2.72	2.0E-05	7661979	NT	Homo sapiens hypodermal protein (HS322B1A), mRNA
5392	18192	30884	4.21	2.0E-05	7705784	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5392	18192	30885	4.21	2.0E-05	7705784	NT	Homo sapiens CGI-48 protein (LOC51098), mRNA
5611	18407	31319	1.27	2.0E-05	11225008	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5611	18407	31320	1.27	2.0E-05	11225008	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5651	18446	31380	0.7	2.0E-05	11525683	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (NPP3), mRNA
6051	18831	31794	5.04	2.0E-05	M59724.1	NT	Human muscle-type phosphotransferase (PFK-M) gene, exon 7
6358	19128	32122	1.16	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-53; variant hepatic nuclear factor (TCF2), mRNA
6358	19128	32123	1.16	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-53; variant hepatic nuclear factor (TCF2), mRNA
6478	19243	32243	2.45	2.0E-05	AF25737.1	NT	Homo sapiens ciliary dysh heavy chain 9 (DNAH9) mRNA, complete cds
6699	19583	32617	1.82	2.0E-05	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
9041	21731	34886	1.06	2.0E-05	11421768	NT	Homo sapiens ribophornin II (RPN2), mRNA
10280	22928	36142	0.84	2.0E-05	11424300	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10824	23317	36557	2.46	2.0E-05	4757653	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRIA) mRNA
11700	24295	37620	3.02	2.0E-05	7662286	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11700	24295	37621	3.02	2.0E-05	7662286	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12289	24724	31055	2.3	2.0E-05	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12868	24980	30894	4.66	2.0E-05	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5527	18325	31226	8.41	1.0E-05	AA284851.1	EST_HUMAN	z23h04.1 Soares over tumor NBH07 Homo sapiens cDNA clone IMAGE:714007 5' similar to
5527	18325	31227	8.41	1.0E-05	AA284851.1	EST_HUMAN	z23h04.1 Soares over tumor NBH07 Homo sapiens cDNA clone IMAGE:714007 5' similar to

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7414	20091	33175	4.3	1.0E-06	BF370000.1	EST_HUMAN	RC6-FN0019-290000-011-G11 FN0019 Homo sapiens cDNA
7414	20091	33176	4.3	1.0E-06	BF370000.1	EST_HUMAN	RC6-FN0019-290000-011-G11 FN0019 Homo sapiens cDNA
8094	20788	33920	1.49	9.0E-06	BE807296.1	EST_HUMAN	601437232F NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3822423 5'
8424	18223	21768	2.77	8.0E-06	AW839047.1	EST_HUMAN	PMO-L10019-090000-002-009 L10019 Homo sapiens cDNA
3889	19839	29278	0.74	7.0E-06	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3478	18232	28886	20.13	8.0E-06	M28873.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase pseudogene 3' end
5552	18348	31258	0.74	8.0E-06	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
11534	24134	37439	3.39	6.0E-06	7692289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11534	24134	37440	3.36	6.0E-06	7692289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11584	24183	37498	2.05	6.0E-06	8023939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11786	24390	37962	1.83	6.0E-06	7692289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11786	24390	37963	1.83	6.0E-06	7692289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
312	13116	26754	2.74	5.0E-06	AB032968.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26280	4.08	5.0E-06	AB032968.1	NT	Homo sapiens phosphodiesterase 8A, GMP-specific, rod, alpha (PDE8A), mRNA
822	13592	26281	4.08	5.0E-06	AB032968.1	NT	Homo sapiens phosphodiesterase 8A, GMP-specific, rod, alpha (PDE8A), mRNA
2624	15336		1.43	5.0E-06	11416787	NT	H. sapiens DNA for monoclonal antibody type A (7) (partial)
4348	17576		1.39	5.0E-06	X00812.1	NT	H. sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6553	19318	32324	1.15	5.0E-06	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6884	19601	32639	5.18	5.0E-06	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6884	19601	32640	5.18	5.0E-06	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
8623	19639	32706	0.71	5.0E-06	AB023177.1	NT	Homo sapiens mRNA for KIAA0900 protein, partial cds
7416	20092	33177	1.88	5.0E-06	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8005	20700	33828	1.36	5.0E-06	M68347.1	NT	Human type IV collagenase (COL4A3) gene, exon 6
8005	20700	33829	1.35	5.0E-06	M68347.1	NT	Human type IV collagenase (COL4A3) gene, exon 6
11793	20700	33715	1.4	5.0E-06	7691973	NT	Human type IV collagenase (COL4A3) gene, exon 6
4168	19608		12.32	3.0E-06	H88658.1	EST_HUMAN	Homo sapiens KIAA0178 gene product (KIAA0178), mRNA
400	13181		4.24	2.0E-06	4903098	NT	X67H12.1 Soares fetal liver spleen cDNA clone IMAGE:212827 5'
730	13504	28188	0.91	2.0E-06	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21D48
4708	17440	30072	1.89	2.0E-06	BE148074.1	EST_HUMAN	RC3-H10230-040500-110-g02 HT6230 Homo sapiens cDNA
7361	20042	33120	0.82	2.0E-06	BF356731.1	EST_HUMAN	QV4-GN0120-280000-427-512 GN0120 Homo sapiens cDNA
7361	20042	33121	0.82	2.0E-06	BF356731.1	EST_HUMAN	QV4-GN0120-280000-427-512 GN0120 Homo sapiens cDNA
8879	21570		5.03	2.0E-06	AV889461.1	EST_HUMAN	AV889461 GK/Homo sapiens cDNA clone GKCFMD07 5'
12008	24643		2.81	2.0E-06	AW246440.1	EST_HUMAN	2819351 SpH193 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
608	13398	28016	2.6	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
608	13398	28017	2.6	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
656	13433	28074	3.38	1.0E-06	Y18800.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1774	14516	27216	2.56	1.0E-06	AW95054.1	EST_HUMAN	EST387124 MAGE resequenced, MAGE Homo sapiens cDNA
1774	14516	27217	2.56	1.0E-06	AW95054.1	EST_HUMAN	EST387124 MAGE resequenced, MAGE Homo sapiens cDNA
2262	15327	27729	1.08	1.0E-06	U51472.2	NT	Felis catus superfast myosin heavy chain (SMHC) mRNA, complete cds
6869	17946	30541	1.3	1.0E-06	6812735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6869	17946	30541	1.3	1.0E-06	6812735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
8111	20805	33938	1.24	1.0E-06	7681803	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8111	20805	33938	1.24	1.0E-06	7681803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8111	20805	33938	1.24	1.0E-06	7681803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8616	21308	34450	20.06	1.0E-06	11419428	NT	Homo sapiens similar to ecdonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83274), mRNA
8748	21441	34588	2.08	1.0E-06	AF274893.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10059	22707	35624	1.24	1.0E-06	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
10059	22707	35625	1.24	1.0E-06	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11069	13398	28016	1.87	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
11069	13398	28017	1.97	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7457	20131		2.6	6.0E-07	BE141840.1	EST_HUMAN	ILK-HIT0117-011089-004-D07 HT0117 Homo sapiens cDNA
8832	21524	34670	0.86	6.0E-07	BE88012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3825133 5'
8832	21524	34671	0.86	6.0E-07	BE88012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3825133 5'
10497	23143	35360	0.57	6.0E-07	AA320332.1	EST_HUMAN	EST122872 Adipose tissue, white II Homo sapiens cDNA 5' end
10497	23143	35370	0.57	6.0E-07	AA320332.1	EST_HUMAN	EST122872 Adipose tissue, white II Homo sapiens cDNA 5' end
11382	23989	37290	1.46	6.0E-07	X15804.1	NT	Human mRNA for alpha-actinin
7913	20098	33739	1.91	5.0E-07	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hsc3) Homo sapiens cDNA clone IMAGE:787768 5' similar to TR:G1304125
8042	20730	33888	11.73	6.0E-07	AA418026.1	EST_HUMAN	267612.1 Scores_NHMPX_S1 Homo sapiens cDNA clone IMAGE:787768 5' similar to TR:G1304125
8074	22227	35412	2.66	6.0E-07	BF154012.1	EST_HUMAN	G1804128 PMS4 mRNA
11535	24135	37441	1.98	5.0E-07	BE148507.1	EST_HUMAN	RCO-BT0812-250500-032-008 BT0812 Homo sapiens cDNA
11535	24135	37442	1.98	5.0E-07	BE148507.1	EST_HUMAN	MFO-HT0241-150500-010-002 HT0241 Homo sapiens cDNA
918	13985	26346	1.86	6.0E-07	BE004436.1	EST_HUMAN	MFO-HT0241-150500-010-002 HT0241 Homo sapiens cDNA
928	13985	26350	1.04	4.0E-07	AB030176.1	NT	CKO-BN0108-170300-293-008 BN0108 Homo sapiens cDNA
928	13985	26360	1.04	4.0E-07	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deaminase type II, complete cds
928	13985	26360	1.04	4.0E-07	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deaminase type II, complete cds
1903	14940	27349	1.07	4.0E-07	5453572	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hlt BLAST E Value	Top Hlt Accession No.	Top Hlt Database Source	Top Hlt Descriptor
5478	18277	31172	0.61	4.0E-97	4557328	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5765	18556	31482	0.95	4.0E-97	U06002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NR2A) mRNA; complete cds
5765	18566	31483	0.95	4.0E-97	U06002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NR2A) mRNA; complete cds
6725	19559	32590	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6725	19559	32591	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6821	19657	32703	1	4.0E-97	7710126	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
6968	19450	32468	1.06	4.0E-97	11422158	NT	Homo sapiens cyclic fibroblast transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8038	20731	33863	0.57	4.0E-97	4557708	NT	Homo sapiens laminin, alpha 2 (mercan, congenital muscular dystrophy) (LAMA2) mRNA
8256	20950	34087	2.83	4.0E-97	11421793	NT	Homo sapiens v-arc avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8518	21210	34353	0.76	4.0E-97	11428233	NT	Homo sapiens cyclo-oxygenase P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9147	21878	35043	1.23	4.0E-97	AB011168.1	NT	Homo sapiens mRNA for KIAA0584 protein, partial cds
9147	21878	35044	1.23	4.0E-97	AB011168.1	NT	Homo sapiens mRNA for KIAA0584 protein, partial cds
11116	23785	37063	1.88	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11412	23779	38407	3.61	4.0E-97	AB042557.1	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11415	23182	36411	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11415	23182	36412	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
12180	24852	25985	7.76	4.0E-97	11418318	NT	Homo sapiens G-2 and 9-phase expressed 1 (GTSE1), mRNA
236	13045	25985	1.14	3.0E-97	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
854	13824	26294	29.53	3.0E-97	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (probable neuroin-II, Alzheimer disease) (APP), mRNA
854	13824	26296	29.53	3.0E-97	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (probable neuroin-II, Alzheimer disease) (APP), mRNA
1422	15680	26855	1.26	3.0E-97	4768813	NT	Homo sapiens N-myc (and STAT) interactor (probable neuroin-II, Alzheimer disease) (APP), mRNA
2440	15529	27895	1.68	3.0E-97	U36255.1	NT	Human beta-prime-actinin (BAM22) gene, exon 7
3254	19010	28667	1.3	3.0E-97	5174478	NT	Homo sapiens pericentriolar (PCNT) mRNA
4729	17461	30068	12.98	1.0E-97	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6333	19103	32091	2.46	1.0E-97	BE568488.1	EST HUMAN	RCO-HT0258-211196-011-q05 HT0258 Homo sapiens cDNA clone IMAGE:3681821.5
9344	20415	33554	1.16	1.0E-97	AW379976.1	EST HUMAN	RCO-HT0258-211196-011-q05 HT0258 Homo sapiens cDNA
9344	20415	33555	1.16	1.0E-97	AW379976.1	EST HUMAN	RCO-HT0258-211196-011-q05 HT0258 Homo sapiens cDNA
9804	22316	36513	1.6	1.0E-97	R10887.1	EST HUMAN	YF8508.81 Scars fetal liver spleen 1NRLS Homo sapiens cDNA clone IMAGE:129134.3
10004	22398	36538	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0549 gene product (KIAA0549), mRNA
10804	22398	36539	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0549 gene product (KIAA0549), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11280	23941	37235	2.03	1.0E-07	AA553761.1	EST_HUMAN	nl29p02.at1 NCL CGAP Cor11 Homo sapiens cDNA clone IMAGE:1014992.3'
11445	23212	36443	14.01	1.0E-07	11428272	NT	Homo sapiens fibronectin protein S15 (RPS16), mRNA
11445	23212	36444	14.01	1.0E-07	11428272	NT	Homo sapiens fibronectin protein S16 (RPS16), mRNA
881	13650	23319	3.52	9.0E-06	BE060873.1	EST_HUMAN	PMA-B10724-010400-008-12 B10724 Homo sapiens cDNA
1253	14002	20070	1.12	9.0E-08	8363002	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6210	18685		0.71	9.0E-08	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
7190	18676	32949	0.67	9.0E-08	7681871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA0028), mRNA
7286	18668	33046	0.6	9.0E-08	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mRNA
7825	20520	33646	4.79	9.0E-08	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
7825	20520	33647	4.79	9.0E-08	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9014	21704	34954	0.28	9.0E-08	X06980.1	NT	Human mRNA for amyloid A(751) protein
9124	21812	34977	1.5	9.0E-08	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9192	21862	35027	1.50	9.0E-08	AB037786.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9238	21817		0.96	9.0E-08	AF057728.1	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9267	22021	35190	1.14	9.0E-08	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9267	22021	35191	1.14	9.0E-08	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10160	22608	36026	0.45	9.0E-08	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10926	23606	36856	2.63	9.0E-08	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
10926	23606	36857	2.63	9.0E-08	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11004	23676	36832	1.39	9.0E-08	11418982	NT	Homo sapiens mitogen-activated protein kinase kinase 7 (MAP3K7), mRNA
11850	24434	37776	1.39	9.0E-08	AB011541.1	NT	Homo sapiens mRNA for MEK6, partial cds
11850	24434	37777	1.39	9.0E-08	AB011541.1	NT	Homo sapiens mRNA for MEK6, partial cds
1351	14089	26774	0.92	9.0E-08	AB033786.1	NT	Homo sapiens HPAD-codony10 mRNA for peptidylarginine deaminase type I, complete cds
1719	14462	27161	2.7	9.0E-08	AB017007.1	NT	Homo sapiens PMS2.16 mRNA, partial cds
1719	14462	27162	2.7	9.0E-08	AB017007.1	NT	Homo sapiens PMS2.16 mRNA, partial cds
3775	16527	29165	0.86	9.0E-08	J04496.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
5991	18772	31735	0.99	9.0E-08	BE988973.1	EST_HUMAN	Human mitochondrial creatine kinase (CKMT) gene, complete cds
2176	14905	27638	1.14	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2613	15324	29007	0.96	3.0E-08	AA031407.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2753	15458		2.9	3.0E-08	AA077496.1	EST_HUMAN	7B19H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B19H01
6847	19547	32576	1.9	3.0E-08	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6847	19547	32577	1.9	3.0E-08	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA

Page 419 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21341	34485	2.73	3.0E-08	H49888.1	EST_HUMAN	yo1709.11 Source adult brain N265HBS0Y Homo sapiens cDNA clone IMAGE:178240 5'
9197	21893	35030	0.48	3.0E-08	88220208	NT	Homo sapiens uncharacterized bone marrow protein BMO39 (BMO39), mRNA
9783	22434	35939	1.42	3.0E-08	AJ403124.1	EST_HUMAN	Homo sapiens cDNA clone B
9783	22434	35940	1.42	3.0E-08	AJ403124.1	EST_HUMAN	Homo sapiens cDNA clone B
10371	23017	36233	0.86	3.0E-08	BE900454.1	EST_HUMAN	Homo sapiens cDNA clone B
10872	23552	36790	4.11	3.0E-08	U69308.1	NT	Human fumase precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11893	24447	37738	1.56	3.0E-08	Z8405.1	NT	Homo sapiens (huc) mRNA, complete cds
12868	25032		1.47	3.0E-08	BE382519.1	EST_HUMAN	601297959F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
12751	25013		3.56	3.0E-08	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2071	14803	27631	2.66	2.0E-08	BE294261.1	EST_HUMAN	601172658F1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3528134 5'
2231	14939	27690	1.53	2.0E-08	AL103202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4284	17005	26637	0.8	2.0E-08	AF032807.1	NT	Homo sapiens poliovirus internal subunit (HERG-3) mRNA, complete cds
4306	17046	26670	3.21	2.0E-08	4758331	NT	Homo sapiens attractin precursor (ATRN) gene, exon 16
4776	17508	30129	1.34	2.0E-08	AF218602.1	NT	Homo sapiens fatty-acyl-CoA synthetase A ligase, long-chain 4 (FACL4) mRNA
4776	17549	30466	1.39	2.0E-08	4758976	NT	Homo sapiens attractin precursor (ATRN) gene, exon 16
5232	18097	30757	4.03	2.0E-08	7708512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC31735), mRNA
6557	18322	32929	1.15	2.0E-08	4505798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7523	20194	33286	1.07	2.0E-08	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7523	20194	33287	1.07	2.0E-08	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8506	21198	34342	4.94	2.0E-08	11428813	NT	Homo sapiens SH3 domain GRB2-like 2 (SH3GL2), mRNA
8506	21198	34343	4.94	2.0E-08	11428813	NT	Homo sapiens SH3 domain GRB2-like 2 (SH3GL2), mRNA
8501	21283	34421	0.58	2.0E-08	176986.1	NT	Homo sapiens NKAT 4b mRNA, complete cds
8591	21283	34422	0.58	2.0E-08	176986.1	NT	Homo sapiens NKAT 4b mRNA, complete cds
9437	22115	35290	1.48	2.0E-08	X12884.1	NT	H. sapiens angiotensin gene exon 3 (EG 3.5.3.1)
10313	22680		1.37	2.0E-08	7705868	NT	Homo sapiens angiotensin gene exon 3 (EG 3.5.3.1)
11155	23822	37103	1.42	2.0E-08	U22028.1	NT	Human cyclotriene P450 (CYP2A13) gene, complete cds
396	13181	25829	18.4	1.0E-08	A182007.1	EST_HUMAN	W38504.1X1 NCI CGAP LH1 Homo sapiens cDNA clone IMAGE:2281743 5' similar to SW:FL2B_HUMAN
442	13228	25871	2.12	1.0E-08	AW98011.1	EST_HUMAN	P28316 60S RIBOSOMAL PROTEIN L23A ;
1789	14529	27237	11.24	1.0E-08	N40818.1	EST_HUMAN	PMO-BN0085-100300-001-008 BN0085 Homo sapiens cDNA W2305.11 Source fetal liver spleen 1NRLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PR-S4204 S84204 ribosomal protein L28 - human ;

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8234	18040	30688	3.4	1.0E-08	AA169954.1	EST_HUMAN	z98c09.r1 Stratagene muscle 837208 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562
5482	18281	31178	1.1	1.0E-08	BE390827.1	EST_HUMAN	G806562 NEBULIN ;
5482	18281	31179	1.1	1.0E-08	BE390827.1	EST_HUMAN	801284689F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806602 5'
8896	21887	34728	2.7	1.0E-08	AF141349.1	NT	801284689F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806602 5'
8896	21887	34727	2.7	1.0E-08	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31441	0.88	9.0E-09	AB05004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31442	0.88	9.0E-09	AB05004.1	EST_HUMAN	QV-BT073-191298-012 B T073 Homo sapiens cDNA
5949	18731	31691	4.21	9.0E-09	AW08835.1	EST_HUMAN	QV-BT073-191298-012 B T073 Homo sapiens cDNA
11066	23736	37000	2.75	9.0E-08	AK79829.1	EST_HUMAN	EST1300711 MAGE resequencing, MAGJ Homo sapiens cDNA
11066	23736	37010	2.75	9.0E-08	AK79829.1	EST_HUMAN	Im68907.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
11390	23690	37298	2.13	9.0E-09	AA134904.1	EST_HUMAN	P65957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8827	21319	34461	1.98	8.0E-08	9835487	NT	Im68907.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
5743	18535	31458	10.03	7.0E-08	AF035908.1	NT	P65957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11610	24208	37532	2.86	7.0E-09	AF001896.1	NT	TR:G882994 G882994 GPI-ANCHORED PROTEIN P137 ;
459	13244	25886	1.89	8.0E-09	U10901.1	NT	Human endogenous retrovirus, complete genome
3968	16818	20258	1.15	6.0E-08	AW976364.1	EST_HUMAN	Homo sapiens occludin (OCLN) gene, exon 5
4099	17433	30064	1.21	6.0E-09	4402660	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
6503	19298	32270	0.72	6.0E-09	L43610.1	NT	Human G2 protein mRNA, partial cds
6578	19341	32354	1.01	6.0E-09	L43610.1	NT	EST386473 MAGE resequencing, MAGN Homo sapiens cDNA
6578	19341	32355	1.01	6.0E-09	X06101.1	NT	Homo sapiens CD34 antigen (CD34) mRNA
8003	20898	33826	1.18	6.0E-09	X06101.1	NT	Homo sapiens GAP-like protein (LOC51308), mRNA
8022	20717	33949	0.63	6.0E-09	9801689	NT	Homo sapiens polytopic kidney disease (PKD1) gene, exons 27-30
8863	21355	34592	2.28	6.0E-09	AB039429.1	NT	Homo sapiens polytopic kidney disease (PKD1) gene, exons 27-30
8762	21454	34602	3.33	6.0E-09	AF080255.1	NT	Homo sapiens polytopic kidney disease (PKD1) gene, exons 27-30
8762	21454	34603	3.33	6.0E-09	AF080255.1	NT	H sapiens mRNA for estrogen receptor
8821	21513	34657	0.6	6.0E-09	11431894	NT	Homo sapiens erofin-like with transmembrane domains 1 (ANKTM1), mRNA
8821	21513	34658	0.6	6.0E-09	11431894	NT	Homo sapiens NDST4 mRNA for N-deacetylase/H-sulfotransferase 4, complete cds
10820	23313	39593	3.89	6.0E-09	11626290	NT	Homo sapiens lisdimer protein mRNA, complete cds
11433	23200	39431	2.01	6.0E-09	9910279	NT	Homo sapiens lisdimer protein mRNA, complete cds
11433	23200	39432	2.01	6.0E-09	9910279	NT	Homo sapiens lisdimer protein mRNA, complete cds
11433	23200	39432	2.01	6.0E-09	9910279	NT	Homo sapiens lisdimer protein mRNA, complete cds

Page 421 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1857	14693	27406	1.38	5.0E-09	Y11365.1	NT	H.sapiens IMPA gene, exon 8
4526	17261	26663	1.56	5.0E-09	AF008690.1	NT	Homo sapiens T cell receptor beta locus, TORBV753A2 to TORBV7252 region
12208	24674	26663	2.81	5.0E-09	BE800177.1	EST_HUMAN	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914361 5'
8220	20914		4.88	3.0E-09	M95596.1	NT	Human E2AF1A fusion protein (E2AF1A) mRNA, complete cds
							XP000031101.1 NCBI_Genebank Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212.MYOSIN
1217	13968		6.88	2.0E-09	AW274792.1	EST_HUMAN	LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3253	10015	26666	1.29	2.0E-09	M30638.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4506	17241	26674	1.04	2.0E-09	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSO) gene, nuclear gene
7574	20243	33348	0.58	2.0E-09	AF257737.1	NT	encoding mitochondrial protein, complete cds
8608	21300	34444	9.55	2.0E-09	W23507.1	EST_HUMAN	Homo sapiens ciliary dynein heavy chain 9 (DNIAH9) mRNA, complete cds
9050	21759	34897	0.78	2.0E-09	R78254.1	EST_HUMAN	zb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11049	23719	36960	3.39	2.0E-09	AF247457.2	NT	gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11788	24378	37708	1.48	2.0E-09	10983060	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
307	13111	25751	1.83	1.0E-09	AF114487.1	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
370	13106	25909	1.02	1.0E-09	11520150	NT	Homo sapiens interactin long isoform (ITSN) mRNA, complete cds
1400	14147	28628	2.09	1.0E-09	M30638.1	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
1549	14295	28681	2.84	1.0E-09	AF192523.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1548	14295	28682	2.04	1.0E-09	AF192523.1	NT	Homo sapiens truncated Nuclein-Pick C3 protein (NPCC3) mRNA, complete cds
1920	14657	27367	1.41	1.0E-09	4503730	NT	Homo sapiens truncated Nuclein-Pick C3 protein (NPCC3) mRNA, complete cds
1920	14657	27368	1.41	1.0E-09	4503730	NT	Homo sapiens truncated Nuclein-Pick C3 protein (NPCC3) mRNA, complete cds
3088	18948	28499	1.36	1.0E-09	J08171.1	NT	Homo sapiens FK506-binding protein 6 (38kD) (FKBP6) mRNA, and translated products
4347	17096	29715	2.82	1.0E-09	AF098018.1	NT	Homo sapiens FK506-binding protein 6 (38kD) (FKBP6) mRNA, and translated products
4347	17096	29716	2.82	1.0E-09	AF098018.1	NT	Human Interferon-alpha receptor (HuIFN-alpha-R) mRNA, complete cds
4347	17096	29717	2.82	1.0E-09	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5638	19453	31367	0.68	1.0E-09	7692349	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
6707	19622	32666	1.28	1.0E-09	11421007	NT	Homo sapiens cell recognition molecule Casp2 (KIAA0868), mRNA
6707	19622	32666	1.28	1.0E-09	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7039	25104	32786	0.78	1.0E-09	X66022.1	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
9099	21757		1.49	1.0E-09	11419721	NT	H.sapiens EG-AP gene exon 2
							Homo sapiens ALEX1 protein (LOC31308), mRNA
9420	22068	36270	1.71	1.0E-09	AW340174.1	EST_HUMAN	h020202.x1 Scores_NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR-027111
11084	23754	37028	2.01	1.0E-09	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
11084	23754	37030	2.01	1.0E-09	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
							Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11141	23808	37088	1.8	1.0E-99	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11350	24040	37343	2.77	1.0E-99	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11984	24525		6.88	1.0E-99	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1	12830	28443	0.95	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2	12830	25443	1.53	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
66	12894	25526	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XX-related protein on Y (XXRY), mRNA
66	12894	25527	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XX-related protein on Y (XXRY), mRNA
85	12911	25550	0.69	1.0E-100	AW276387.1	EST_HUMAN	Homo sapiens Testis-specific XX-related protein on Y (XXRY), mRNA
103	12979	25618	1.24	1.0E-100	AL163249.2	NT	x078b11.x1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:2824665 3'
300	13113	25753	0.83	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C046
334	13135	25770	3.08	1.0E-100	TO8087.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
427	13213		1.28	1.0E-100	AF003528.1	NT	EST02875 Fetal brain, Striatum (cat836209) Homo sapiens cDNA clone HFBOR32
477	13263		7.19	1.0E-100	X89831.1	NT	Homo sapiens X-linked inhibitory ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
488	13280	25615	1.33	1.0E-100	BE180609.1	EST_HUMAN	G.gallia DNA for ZNF80 gene homolog
968	13758	28418	3.22	1.0E-100	7661685	NT	RC3-H10625-040500-022-b09 HT6268 Homo sapiens cDNA
968	13758	28419	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP568M0122 protein (DKFZP568M0122), mRNA
1415	14163	26846	3.14	1.0E-100	BF530735.1	EST_HUMAN	Homo sapiens DKFZP568M0122 protein (DKFZP568M0122), mRNA
1538	14285		1.14	1.0E-100	AW207595.1	EST_HUMAN	60207204F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4215039 5'
1543	14289	26978	1.81	1.0E-100	AI200857.1	EST_HUMAN	UJH-BH-afic-c07-c01.1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
1556	14594	27309	1.41	1.0E-100	AB032384.1	NT	qf62003.x1 Soera, testis_NHT Homo sapiens cDNA clone IMAGE:1754653 3' similar to SW:CYT_COTJA
2238	14966		1.39	1.0E-100	D65349.1	NT	P61061 CYSTATIN1
2439	15159	27894	1.33	1.0E-100	X62493.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2710	15417	28165	2.36	1.0E-100	11418976	NT	Rat mRNA for short type PB-cadherin, complete cds
3018	15784		5.5	1.0E-100	D11078.1	NT	H. sapiens mRNA for IFN-gamma (pK-C-0)
4186	16027	29558	1.82	1.0E-100	AF057354.1	NT	Homo sapiens KIAA0057 protein (KIAA0057), mRNA
4211	16862	29576	2.14	1.0E-100	AF036943.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
4418	17154	29785	1.03	1.0E-100	AF036943.1	NT	Homo sapiens follicle stimulating hormone receptor (FSHR), mRNA
5031	17761	30362	2.86	1.0E-100	5032104	NT	Homo sapiens myelin transcription factor 1-like (MTFL1), mRNA, complete cds
5031	17751	30363	2.86	1.0E-100	5032104	NT	Homo sapiens myelin transcription factor 1-like (MTFL1), mRNA, complete cds
5207	18015	30637	1.82	1.0E-100	BF244218.1	EST_HUMAN	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							801863194F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5421	18220	30831	0.59	1.0E-100	AW075863.1	EST_HUMAN	xs8201.x1 NGL CGAP QM.1 Homo sapiens cDNA clone IMAGE:2673305 3' similar to gb:U12433
5614	18410	31323	1.33	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5660	18455	31369	1.26	1.0E-100	AF135118.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'
5747	18539	31461	0.8	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6071	18850	31814	0.94	1.0E-100	4657568	NT	Human mRNA for plasma fibrin-alpha-2-macroglobulin inhibitor heavy chain H(3)
6071	18850	31815	0.94	1.0E-100	4657568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6343	19113	32173	1.67	1.0E-100	5728607	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6405	19174	32173	5.64	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens hsd domain and RLD 2 (HERC2), mRNA
6457	19224	32224	1.97	1.0E-100	AU136800.1	EST_HUMAN	AU140214 PLAGE1 Homo sapiens cDNA clone PLAGE2000137 5'
6566	19349	32362	1.37	1.0E-100	R10887.1	EST_HUMAN	AU136800 PLAGE1 Homo sapiens cDNA clone PLAGE1005089 5'
6970	19587	32622	0.9	1.0E-100	7382479	NT	y8a08.at Source fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:129134 3'
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
6742	19576	32609	1.19	1.0E-100	AA498841.1	EST_HUMAN	ae33506.t1 Cessier Wilms tumor Homo sapiens cDNA clone IMAGE:867587 5' similar to TR-G487418
6786	19630	32657	1.13	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
6786	19630	32658	1.13	1.0E-100	BF376478.1	EST_HUMAN	ae33506.t1 Cessier Wilms tumor Homo sapiens cDNA clone IMAGE:867587 5' similar to TR-G487418
6783	19537	32665	6.76	1.0E-100	X04571.1	NT	MR1-TN0046-000900-004-505 TN0046 Homo sapiens cDNA
8430	21123	34281	7.17	1.0E-100	BF103583.1	EST_HUMAN	MR1-TN0046-000900-004-505 TN0046 Homo sapiens cDNA
8468	21168	34740	4.8	1.0E-100	AL163203.2	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
8612	21003	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	G0164735/FT NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3831310 5'
8612	21003	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
9132	21820	34986	3.82	1.0E-100	AB040518.1	NT	AU110951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9210	22089	35520	2.78	1.0E-100	AB072388.1	EST_HUMAN	AU110951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9333	22040	35520	1.82	1.0E-100	AW069891.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9386	22048	35520	7.61	1.0E-100	AU127720.1	EST_HUMAN	MR222 repetitive element ;
9483	22136	35316	2.11	1.0E-100	AB046846.1	NT	PMO-BN0065-100300-001-c08 BN0065 Homo sapiens cDNA
9483	22136	35317	2.11	1.0E-100	AB046846.1	NT	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9805	22554	35749	0.49	1.0E-100	AV732101.1	EST_HUMAN	HN58c11.y1 NGL CGAP GU1 Homo sapiens cDNA clone IMAGE:2068366 5'
10368	23014	36230	1.47	1.0E-100	BF347619.1	EST_HUMAN	HN58c11.y1 NGL CGAP GU1 Homo sapiens cDNA clone IMAGE:2068366 5'
							AV732101 HTF Homo sapiens cDNA clone HTFBI001 5'
							56202664FT NGL CGAP Bm67 Homo sapiens cDNA clone IMAGE:4156166 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10458	23104		2.2	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10658	23349	36586	0.27	1.0E-100	BF327292.1	EST_HUMAN	MRO-BN0070-270300-008-111 BN0070 Homo sapiens cDNA
11326	24017	37319	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11328	24017	37320	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11358	12830	25443	2.11	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21Q47
11353	24230		1.59	1.0E-100	AW1875464.1	EST_HUMAN	QV2-PT0012-010300-070-004 PT0012 Homo sapiens cDNA
11681	24278		1.48	1.0E-100	AF266295.1	NT	Homo sapiens golin-like protein (GLP) gene, complete cds
11749	24340	37698	1.57	1.0E-100	AA115905.1	EST_HUMAN	z65a03.1 Scores_Pregnant uterus NIH/PU Homo sapiens cDNA clone IMAGE:489964 5'
11749	24340	37699	1.57	1.0E-100	AA115905.1	EST_HUMAN	z65a03.1 Scores_Pregnant uterus NIH/PU Homo sapiens cDNA clone IMAGE:489964 5'
11907	24471	37806	0.57	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12031	25278		1.51	1.0E-100	BF448549.1	EST_HUMAN	7q88K03.x1 NCL_CGAP_Luc24 Homo sapiens cDNA clone IMAGE: 3' similar to TRQ21987 Q21987
12200	24688	31071	3.87	1.0E-100	11545732	NT	COSMID R161, [2] TRQ21987
12792	25044	30698	4.62	1.0E-100	11417874	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
75	12002	25539	1.75	1.0E-101	7110714	NT	Homo sapiens transcalabrin II; macrocytic anemia (TCN2), mRNA
75	12002	26540	1.76	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	13447	26087	1.82	1.0E-101	AB007915.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
588	13463	26111	5.88	1.0E-101	7110734	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
688	13463	26112	5.88	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
754	13526	26185	1.99	1.0E-101	7057454	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
833	13603	26273	1.5	1.0E-101	4603914	NT	Homo sapiens pascualillo (zabralist) homolog 1, containing BRCT domain (PES1), mRNA
904	13671	26335	1.22	1.0E-101	Z20650.1	NT	Homo sapiens phosphoribosylglycylamide formyltransferase, phosphoribosylglycylamide synthetase, phosphoribosylmethionide synthetase (GART) mRNA
964	13729	26396	14.26	1.0E-101	BF681218.1	EST_HUMAN	Homo sapiens of cardiac alpha-myosin heavy chain gene
1030	13760	26449	1.63	1.0E-101	A1221878.1	EST_HUMAN	802156474F1 NH_MGC_83 Homo sapiens cDNA clone IMAGE:4287281 5'
1577	14324	27012	1.46	1.0E-101	5921460	NT	sg69e09.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:4287281 5'
1577	14324	27013	1.46	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27182	1.52	1.0E-101	7682183	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27183	1.52	1.0E-101	7682183	NT	Homo sapiens KIAA0599 gene product (KIAA0599), mRNA
1838	14673	27389	1.62	1.0E-101	4502996	NT	Homo sapiens KIAA0599 gene product (KIAA0599), mRNA
2050	14783	27510	1.79	1.0E-101	BE843070.1	EST_HUMAN	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2349	15592	27808	1.71	1.0E-101	5729892	NT	RC3-ST0281-160600-016-H09 ST0281 Homo sapiens cDNA
2620	15332	28076	2.6	1.0E-101	X72993.1	NT	Homo sapiens A kinase (PRKA) anchor protein 5 (AKAP5), mRNA
							H. sapiens EWS gene, exon 5

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2747	15452	28182	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2747	15452	28183	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2955	15721		13.73	1.0E-101	AJ262312.1	NT	Homo sapiens genome downstream Rhesus box
3168	15981	28613	1.98	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3235	15997		2.27	1.0E-101	BF058327.1	EST_HUMAN	601498331F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3862088 5'
3375	16134	28700	1.93	1.0E-101	AW985598.1	EST_HUMAN	EST377829 IMAGE resequenced, MAGI Homo sapiens cDNA
3395	15452	28183	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
3857	16607	29245	3.99	1.0E-101	AB022785.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
4974	17697	30304	1.16	1.0E-101	5921490	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4974	17697	30305	1.16	1.0E-101	5921490	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
5235	18041	30969	1.22	1.0E-101	AW985139.1	EST_HUMAN	Homo sapiens butyrylcholin, subfamily 2, member A1 (BTN2A1), mRNA
5913	18998	31661	3.68	1.0E-101	7427512	NT	EST377212 IMAGE resequenced, MAGI Homo sapiens cDNA
5913	18998	31662	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6585	19358	32372	1.27	1.0E-101	11430734	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
7173	19859		1.01	1.0E-101	11545780	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7220	19905	32677	5.57	1.0E-101	AF208070.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7220	19905	32678	5.57	1.0E-101	AF208070.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7376	20069	33136	7.48	1.0E-101	AW008476.1	EST_HUMAN	w55812.x1 NCL CGAP Genl Homo sapiens cDNA clone IMAGE:2633487 3'
7474	20147		1.79	1.0E-101	BE257384.1	EST_HUMAN	601108217F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:5349601 5'
7623	20298	33398	7.43	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-F12 BT0313 Homo sapiens cDNA
7813	20508	33631	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345990 5'
7813	20508	33632	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345990 5'
7854	20849	33772	2.88	1.0E-101	BF029774.1	EST_HUMAN	601764988F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3968837 5'
8221	20915	34050	0.67	1.0E-101	AW630070.1	EST_HUMAN	h1747g10.y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2988578 5' similar to g10:103143
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN); h1747g10.y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2988578 5' similar to g10:103143
8808	21509	34741	1.08	1.0E-101	AA035900.1	EST_HUMAN	2429p08.11 Scoville fragment, human, Nkx1P1 Homo sapiens cDNA clone IMAGE:471908 5' similar to
9229	21908	35090	0.83	1.0E-101	AB037772.1	NT	PIR-S54640 S54640 Y06553.03c protein - yeast
9229	21908	35091	0.83	1.0E-101	AB037772.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33563	17.13	1.0E-101	X60098.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33564	17.13	1.0E-101	X60098.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5375	21950	35123	17.01	1.0E-101	9845462	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
5376	21950	35123	17.01	1.0E-101	9845462	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9557	22309	35506	6.24	1.0E-101	BE619887.1	EST_HUMAN	60147280811 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9557	22309	35506	6.24	1.0E-101	BE619887.1	EST_HUMAN	60147280811 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9557	22309	35506	6.24	1.0E-101	BE619887.1	EST_HUMAN	60147280811 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9704	22445	35950	0.72	1.0E-101	10863992	NT	Homo sapiens protein kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
9704	22445	35950	0.72	1.0E-101	10863992	NT	Homo sapiens protein kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
9704	22445	35950	0.72	1.0E-101	10863992	NT	Homo sapiens protein kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10308	22655	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10308	22655	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10308	22655	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10447	23083	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3905087 5'
10447	23083	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3905087 5'
10447	23083	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3905087 5'
10447	23083	36324	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3905087 5'
10788	29471	36713	1.98	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 105 nt, segment 8 of 9]
11033	23723	36994	2.11	1.0E-101	AB020828.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AF590078.1	EST_HUMAN	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AF590078.1	EST_HUMAN	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AF590078.1	EST_HUMAN	Homo sapiens mRNA for KIAA0819 protein, partial cds
11763	24354	37689	1.31	1.0E-101	AB08168.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37689	1.31	1.0E-101	AB08168.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37689	1.31	1.0E-101	AB08168.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
12461	24829	37687	13.88	1.0E-101	AF030051.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
12461	24829	37687	13.88	1.0E-101	AF030051.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
12461	24829	37687	13.88	1.0E-101	AF030051.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
38	12886	25485	2	1.0E-102	AF012872.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
332	13133	26767	4.35	1.0E-102	AF012872.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
332	13133	26767	4.35	1.0E-102	AF012872.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
769	13530	20190	1.99	1.0E-102	M10976.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
769	13530	20190	1.99	1.0E-102	M10976.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
769	13530	20190	1.99	1.0E-102	M10976.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
1065	13853	20512	2.8	1.0E-102	M10976.1	NT	RC-BT183-200499-085 BT183 Homo sapiens cDNA
1245	13994	20660	1.67	1.0E-102	11437146	NT	QV1-D10068-240200-085-01 D10068 Homo sapiens cDNA
1245	13994	20660	1.67	1.0E-102	11437146	NT	QV1-D10068-240200-085-01 D10068 Homo sapiens cDNA
1245	13994	20660	1.67	1.0E-102	11437146	NT	QV1-D10068-240200-085-01 D10068 Homo sapiens cDNA
1281	14010	20678	0.96	1.0E-102	BE408447.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (PI4K230) mRNA, complete cds
1398	14145	20823	119.7	1.0E-102	BE408447.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (PI4K230) mRNA, complete cds
2307	15032	27799	1.88	1.0E-102	AI124699.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21G103
2307	15032	27799	1.88	1.0E-102	AI124699.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21G103
2307	15032	27799	1.88	1.0E-102	AI124699.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21G103
3001	15827	28472	1.32	1.0E-102	7691979	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
3001	15827	28472	1.32	1.0E-102	7691979	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
3001	15827	28472	1.32	1.0E-102	7691979	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
3130	15856	28538	4.76	1.0E-102	AU141008.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3130	15856	28538	4.76	1.0E-102	AU141008.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3130	15856	28538	4.76	1.0E-102	AU141008.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
4207	16946	29574	1.57	1.0E-102	BE281310.1	EST_HUMAN	Homo sapiens acute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4207	16946	29574	1.57	1.0E-102	BE281310.1	EST_HUMAN	Homo sapiens acute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4207	16946	29574	1.57	1.0E-102	BE281310.1	EST_HUMAN	Homo sapiens acute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4378	17115	29748	2.17	1.0E-102	BE281310.1	EST_HUMAN	Homo sapiens acute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4378	17115	29748	2.17	1.0E-102	BE281310.1	EST_HUMAN	Homo sapiens acute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4378	17115	29748	2.17	1.0E-102	BE281310.1	EST_HUMAN	Homo sapiens acute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA

Page 427 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5207	18002	30753	1.87	1.0E-102	AF067133.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5653	18458		9.17	1.0E-102	AB034651.1	NT	Homo sapiens HSC64 mRNA for heat shock cognate protein 54, complete cds
5698	18492	31414	2.84	1.0E-102	7705308	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705308	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5704	18498	31420	0.81	1.0E-102	11433040	NT	Homo sapiens heat domain and RLD 2 (HERC2), mRNA
6200	18978	31654	2.93	1.0E-102	AF068025.1	EST_HUMAN	ar6208.x1 Barbed colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151765 3' similar to TR-Q13137
7036	19728	32785	0.75	1.0E-102	BE738323.1	EST_HUMAN	Q13137 NDP82 ;
7065	19750	32821	1.04	1.0E-102	BE386106.1	EST_HUMAN	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7255	19839	33014	8.23	1.0E-102	AJ238094.1	NT	601272715F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3878243 5'
7824	20185	33288	2.48	1.0E-102	AV710738.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
8122	20816	33662	3.91	1.0E-102	BE730351.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone QUA4KD03 5'
8201	20895	34032	1.32	1.0E-102	BE910555.1	EST_HUMAN	QV5-NT0025-210000-239-108 NT0025 Homo sapiens cDNA
8392	21085	34218	2.21	1.0E-102	AV694817.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3803145 5'
8501	21163	34335	1.19	1.0E-102	AB007823.1	NT	AV694817 GK/G Homo sapiens cDNA clone GKCEEE11 5'
8629	21621	34667	0.53	1.0E-102	BE388063.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8829	21621	34668	0.53	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
9160	21881	35049	0.52	1.0E-102	AJ702856.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
9181	21851	35017	0.81	1.0E-102	AV755942.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
9221	21900	35069	2.28	1.0E-102	T70393.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
9221	21900	35070	2.28	1.0E-102	T70393.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
8311	21978	35151	3.79	1.0E-102	AU124629.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
10281	22929		0.68	1.0E-102	AF153715.1	NT	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
10367	23013	36228	3.67	1.0E-102	AJ905037.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
10367	23013	36228	3.67	1.0E-102	AJ905037.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
10428	23074	36296	1.24	1.0E-102	AA070786.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
11008	23680	36937	2.56	1.0E-102	4507822	NT	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
11008	23680	36938	2.56	1.0E-102	4507822	NT	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
11200	23951	37248	1.56	1.0E-102	AA089676.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'
11380	23987	37287	3.01	1.0E-102	BF358243.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805538 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11710	24305	37631	3.57	1.0E-103	U41302.1	NT	Human chromosome 16 oxidative transporter (SLC04A8) and (CDM) peroxisome genes, complete cds
11911	24476		3.52	1.0E-102	AL163280.2	NT	Human sapiens chromosome 21 segment HS21C080
12450	24820	31023	4.89	1.0E-102	AW300862.1	EST_HUMAN	X807612.1 NCI CGAP_Oc20 Homo sapiens cDNA clone IMAGE:2696038 3'
67	12856	25526	1.19	1.0E-103	BE908156.1	EST_HUMAN	601500-405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
67	12856	25529	1.19	1.0E-103	BE908156.1	EST_HUMAN	601500-405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
68	12924	25661	10.5	1.0E-103	D67078.2	NT	Homo sapiens mRNA for KIAA0225 protein, partial cds
203	13016	25656	1.45	1.0E-103	5463793	NT	Homo sapiens nuclear protein (KKEID repeat) (NOP56) mRNA
800	13726	26386	0.79	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1221	13971	26643	10.23	1.0E-103	BE677641.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887879 5'
1591	14337	27028	3.76	1.0E-103	AF012872.1	NT	Homo sapiens phosphotyrosine 4-kinase 230 (p4K230) mRNA, complete cds
1807	14644	27354	1.75	1.0E-103	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP) mRNA
1808	14704	27420	1.44	1.0E-103	4602428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1938	14704	27421	1.44	1.0E-103	4602428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2303	15028	27765	1.15	1.0E-103	AL134981.1	EST_HUMAN	Homo sapiens protein tyrosine kinase 2 (catalytic protein 2) (BMP8) mRNA
2462	15170	27909	1.33	1.0E-103	AF090588.1	NT	Homo sapiens protein tyrosine kinase 2 (catalytic protein 2) (BMP8) mRNA
2803	15316	28055	1.23	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179428 5'
2803	15316	28058	1.23	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179428 5'
3094	15530		2.08	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3934315 5'
3374	16133	28759	4.1	1.0E-103	AW290245.1	NT	U-H-BWD-gt-h-11-0-UL1 NCI CGAP_Sub67 Homo sapiens cDNA clone IMAGE:2733165 3'
3433	16180	28837	0.99	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1450 protein, partial cds
3737	16490		8.55	1.0E-103	AF023881.1	NT	Medical malaria cytoplasmic A mRNA, complete cds
3774	16526	29185	1.23	1.0E-103	AA485993.1	EST_HUMAN	ab10412.1 Stragelene lung (4837210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element
3910	16562	29185	1.72	1.0E-103	11430876	NT	Homo sapiens neurapilin 1 (NRP1), mRNA
3985	16733	29387	3.47	1.0E-103	T29883.1	EST_HUMAN	seq340 b4HBSMA-Cor106+10-Bio Homo sapiens cDNA clone b4HBSMA-Cor106+10-Bio-7 3'
5844	18632	31597	0.96	1.0E-103	BF969527.1	EST_HUMAN	602186023F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4310573 5'
5852	18639	31577	2.82	1.0E-103	AF176985.1	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6174	18951	31823	0.89	1.0E-103	11436053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6174	18951	31824	0.89	1.0E-103	11436053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6308	19137	32132	0.75	1.0E-103	AW954596.1	EST_HUMAN	EST3966333 IMAGE resequences, MAGC Homo sapiens cDNA
6308	19137	32133	0.75	1.0E-103	AW954596.1	EST_HUMAN	EST3966333 IMAGE resequences, MAGC Homo sapiens cDNA
6408	25022	32265	1.53	1.0E-103	AA781442.1	EST_HUMAN	af25023.1 Soenne_NHT Homo sapiens cDNA clone 1391452 3'
6535	19301	32304	0.94	1.0E-103	AF053490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6618	19380	32396	1.48	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789
6618	19380	32397	1.48	1.0E-103	AI590071.1	EST_HUMAN	Q13789 ANONYMOUS. ; tm58b05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789
6747	17916	30579	1.53	1.0E-103	6032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker type), includes DXS164, DXS206, DXS230, DXS268, DXS270, DXS272 (DMD), transcript variant Dp-427m, mRNA
6747	17916	30580	1.53	1.0E-103	6032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker type), includes DXS164, DXS206, DXS230, DXS268, DXS270, DXS272 (DMD), transcript variant Dp-427m, mRNA
6872	17949	30544	1.27	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
6935	19870	32718	0.99	1.0E-103	AJ286860.1	NT	Homo sapiens KIAA0851 gene (partial), XTS gene and LZTFL1 gene
7127	19815	32883	1.63	1.0E-103	AW965778.1	EST_HUMAN	EST377949 IMAGE resequencing, MAGI Homo sapiens cDNA
7233	19878	32890	6.93	1.0E-103	BE748158.1	EST_HUMAN	601571537F1 NIH MGC_55 Homo sapiens cDNA clone IMAGE:3938545 5'
7671	20335	33446	4.21	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789
7671	20335	33447	4.21	1.0E-103	AI590071.1	EST_HUMAN	Q13789 ANONYMOUS. ; tm58b05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789
8187	20881	34019	0.77	1.0E-103	TS1080.1	EST_HUMAN	EST127183 Human Brain Homo sapiens cDNA 5' end similar to None
8519	21211	34354	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE200374 5'
8519	21211	34355	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE200374 5'
8904	21296	34439	1.1	1.0E-103	BF109244.1	EST_HUMAN	780603.x1 Soares NSF_F8_9W_OT_P_S1 Homo sapiens cDNA clone IMAGE:3625984 3' similar to SW-PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;
9005	21695	34845	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9005	21695	34846	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9046	21736	34891	1.16	1.0E-103	AA581086.1	EST_HUMAN	nc15c02.s1 NCL CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gbl-L02428 26S
9088	21777	34941	5.04	1.0E-103	AA774980.1	EST_HUMAN	ae0-d12.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb-X033747_cds1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
9182	21832	34995	0.56	1.0E-103	BE035842.1	EST_HUMAN	QV2-NN0045-230800-322-503 NN0045 Homo sapiens cDNA
9182	21832	34996	0.56	1.0E-103	BE035842.1	EST_HUMAN	QV2-NN0045-230800-322-503 NN0045 Homo sapiens cDNA
9958	22608	35811	1.44	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
9999	22847	35859	1.89	1.0E-103	AW963978.1	EST_HUMAN	EST1375749 IMAGE resequencing, MAGI Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10138	22786	35998	9.2	1.0E-103	A1878956.1	EST_HUMAN	au5104.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518329 5' similar to TR:O15046 O15046 KIA00338;
10634	23328	36563	3.66	1.0E-103	A1762769.1	EST_HUMAN	cc2808.y5 NC1 CGAP Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
10737	23424	36998	2.04	1.0E-103	11424081	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10737	23424	36998	2.04	1.0E-103	11424081	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10748	23434	36877	2.22	1.0E-103	AF140773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10748	23434	36878	2.22	1.0E-103	AF140773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10793	23476	36717	1.3	1.0E-103	X67831.2	NT	Homo sapiens mRNA for partial OCT7/Hein-A2 protein
10793	23476	36718	1.3	1.0E-103	X67831.2	NT	Homo sapiens mRNA for partial OCT7/Hein-A2 protein
11347	24037	37340	2.8	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11423	23190	36421	10.74	1.0E-103	L43610.1	NT	Homo sapiens polytopic kidney disease (PKD1) gene, exons 27-30
11748	24339	37687	2.41	1.0E-103	BE644611.1	EST_HUMAN	7e88a10.x1 Soares NSF R9_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER28.13 MER29 negative element;
11937	24484	37687	2.11	1.0E-103	BE644611.1	EST_HUMAN	7e88a10.x1 Soares NSF R9_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER28.13 MER29 negative element;
12128	24620	31081	2.83	1.0E-103	AB011396.1	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
227	13039	25876	3.73	1.0E-104	AL037649.3	EST_HUMAN	DKFZp664H1072_r1 664 (synonym: hbr2) Homo sapiens cDNA clone DKFZp664H1072 5'
227	13039	25877	3.73	1.0E-104	AL037649.3	EST_HUMAN	DKFZp664H1072_r1 664 (synonym: hbr2) Homo sapiens cDNA clone DKFZp664H1072 5'
1881	14618	27328	2.18	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2190	14619	27653	3.66	1.0E-104	AA132975.1	EST_HUMAN	gc22a06.a1 Strelagen colon (#637294) Homo sapiens cDNA clone IMAGE:587628 3' similar to
2201	14629	27686	2.57	1.0E-104	BE744628.1	EST_HUMAN	gb:Z14116_mai CD98 GLYCOPROTEIN PRECURSOR (HUMAN);
2369	15061	27829	1.38	1.0E-104	BF334221.1	EST_HUMAN	80167740F1 NIH JMG. 9 Homo sapiens cDNA clone IMAGE:3928438 5'
2369	15061	27830	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110000-214-f12 CT0249 Homo sapiens cDNA
2458	15158	27983	1.68	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2507	15224	27985	1.11	1.0E-104	7682126	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2507	15224	27986	1.11	1.0E-104	7682126	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2874	15841	28285	7.41	1.0E-104	M64671.1	NT	Human lymphocyte antigen CD58/MEN43 mRNA, complete cds
2917	16083		2.74	1.0E-104	Y11161.1	NT	H. sapiens gene encoding phenylpyruvate tautomerase II
3398	16145		2.04	1.0E-104	AA319438.1	EST_HUMAN	EST121656 Adrenal gland tumor Homo sapiens cDNA 5' end
3587	16341	28988	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3587	16341	28987	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3924	16674	28315	0.76	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4344	17088	28712	3.93	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)

Page 431 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4570	17305	29832	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4570	17305	29833	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5106	17824	30441	1.08	1.0E-104	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
5850	18637	31573	1.28	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5850	18637	31574	1.28	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5897	18682	31630	1.12	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Aurora/1p1-related kinase 3, complete cds
6375	19144	32141	9.51	1.0E-104	AJ768787.1	EST_HUMAN	W03812X1 NCL CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR-Q14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element
6375	19144	32142	9.51	1.0E-104	AJ768787.1	EST_HUMAN	W03812X1 NCL CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR-Q14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element
6551	19316	32522	0.75	1.0E-104	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC31735), mRNA
6706	19821	32663	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6706	19821	32664	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7125	19813	32881	2.03	1.0E-104	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
5495	21187	34330	0.63	1.0E-104	BF59244.1	EST_HUMAN	U1-H-BM-aw-b-09-D-J1 st NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3066176 3'
5085	21754	34915	5.23	1.0E-104	BF448230.1	EST_HUMAN	nc116g11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:33665048 5'
9163	21833	34997	0.6	1.0E-104	AA652308.1	EST_HUMAN	z98505.st Scores_beta_liver_spleen_infls_S1 Homo sapiens cDNA clone IMAGE:462887 3'
9184	21854	35061	1.31	1.0E-104	174218.1	EST_HUMAN	yc83102.l1 Scores Infant brain INIB Homo sapiens cDNA clone IMAGE:22440 5'
9214	21893	35060	4.27	1.0E-104	AF061395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9214	21893	35061	4.27	1.0E-104	AF061395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33529	4.4	1.0E-104	BF332841.1	EST_HUMAN	IL3-HT0619-080900-246-F07 HT0619 Homo sapiens cDNA
9341	20412	33530	4.4	1.0E-104	BF332841.1	EST_HUMAN	IL3-HT0619-080900-246-F07 HT0619 Homo sapiens cDNA
9654	22306	35503	0.85	1.0E-104	AW103848.1	EST_HUMAN	xd76802.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2803523 3' similar to TR-Q24118 Q24118 HYPOTHETICAL 28.4 KD PROTEIN
9654	22306	35504	0.85	1.0E-104	AW103848.1	EST_HUMAN	xd76802.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2803523 3' similar to TR-Q24118 Q24118 HYPOTHETICAL 28.4 KD PROTEIN
9847	22497	35696	0.71	1.0E-104	AF113514.1	NT	Homo sapiens Histone acetyltransferase MORF, mRNA, complete cds
9893	22641	35852	2.83	1.0E-104	BE791713.1	EST_HUMAN	601561503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
9993	22841	35853	2.83	1.0E-104	BE791713.1	EST_HUMAN	601561503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10296	22846	36160	1.29	1.0E-104	AU728070.1	EST_HUMAN	AV728070 HT0 Homo sapiens cDNA clone HTCBYAD7 5'
10359	22966	36204	4.61	1.0E-104	AU130765.1	EST_HUMAN	AU130765 NT2R93 Homo sapiens cDNA clone NT2R93001358 5'
10450	23098	36327	4.41	1.0E-104	U86535.1	NT	Human beta4-integrin (ITGB4) gene, exon 19,20,21,22,23,24 and 25
10454	23110	36327	0.82	1.0E-104	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11268	23630	37221	2.07	1.0E-104	BE720191.1	EST_HUMAN	RCG-HT0885-10700-021-509 HT0885 Homo sapiens cDNA

Page 432 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11288	23630	37222	2.07	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-0271-009 HT0885 Homo sapiens cDNA
11289	23650	37259	4.98	1.0E-104	BF584288.1	EST_HUMAN	60214121F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302607 5'
11580	24189	37505	1.75	1.0E-104	BE731978.1	EST_HUMAN	60156800F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841081 5'
11690	24189	37505	1.75	1.0E-104	BE731978.1	EST_HUMAN	60156800F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841081 5'
11781	24381	37712	1.42	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S8 kinase, 90kD, polypeptide 5 (RPS8K45), mRNA
12702	24982		2.38	1.0E-104	BE383892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3669076 5'
272	16514	25722	11.13	1.0E-105	4502106	NT	Homo sapiens amyloid beta (A β) precursor protein (protease resistin-II, Alzheimer disease) (APP), mRNA
416	12927	25440	8.99	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
580	13360	25987	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
590	13360	25988	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14354	27269	0.91	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	14856	27366	1.83	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2188	14915	27649	1.29	1.0E-105	AA318390.1	EST_HUMAN	EST20809 Spleen 1 Homo sapiens cDNA 5' and similar to subunit 2 antigen Ku, p70/p80 subunit
2322	15047		1.44	1.0E-105	BE891706.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3005	15772		2.89	1.0E-105	AL228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3348	16106	28759	0.88	1.0E-105	7304822	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3349	16105	28760	0.88	1.0E-105	7304822	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4077	16821	29447	2.07	1.0E-105	AW901688.1	EST_HUMAN	EST1373781 MAGE sequences, MAGG Homo sapiens cDNA
4694	17428	30058	0.74	1.0E-105	BE868881.1	EST_HUMAN	601446823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4864	17428	30059	0.74	1.0E-105	BE868881.1	EST_HUMAN	601446823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4886	17613		4.24	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5091	17612	30377	1.16	1.0E-105	AW901839.1	NT	Homo sapiens mRNA for KIAA0789 protein, partial cds
5091	17810	30426	0.94	1.0E-105	AW98015.1	EST_HUMAN	EST1378088 MAGE sequences, MAGG Homo sapiens cDNA
5247	18093	30681	0.96	1.0E-105	AF010704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5312	18118		1.07	1.0E-105	11420134	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
6904	19466	32486	2.16	1.0E-105	BF314302.1	EST_HUMAN	601601028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4190334 5'
6804	19465	32486	2.16	1.0E-105	BF314302.1	EST_HUMAN	601601028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4190334 5'
6885	17961	30515	3.65	1.0E-105	11419190	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17961	30515	3.65	1.0E-105	11419190	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6927	19063	32709	0.83	1.0E-105	AW951694.1	EST_HUMAN	EST1363689 MAGE sequences, MAGG Homo sapiens cDNA
7184	19870	32944	0.59	1.0E-105	BE902816.1	EST_HUMAN	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960010 5'
7722	20388	33500	0.95	1.0E-105	6808894	NT	Homo sapiens p160catenin 4 (PKP4), mRNA
7758	20454	33579	0.97	1.0E-105	X12550.1	NT	Human mRNA for dcl proto-oncogene

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7827	20622	33750	0.55	1.0E-105	T05087.1	EST_HUMAN	EST02975 Fetal brain, Stratagene (cat#838206) Homo sapiens cDNA clone HBCR32
8297	20981	34120	1.41	1.0E-105	AW007194.1	EST_HUMAN	W50c10.x1 NCI CGAP Bm26 Homo sapiens cDNA clone IMAGE:2500628 3' similar to SW:ACSA_PENCH P96333 ACETYL-COENZYME A SYNTHETASE ;
8828	21518	34683	0.88	1.0E-105	AW940817.1	EST_HUMAN	RCH-CN0009-070100-011-005 CN0008 Homo sapiens cDNA
8848	21639	34786	2.82	1.0E-105	AW016879.1	EST_HUMAN	U1H-B10p-4b-b-12-0-J1 s1 NCI CGAP Sub2 Homo sapiens cDNA clone IMAGE:271782 3'
9103	21791	34954	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-070082-140300-063-008 OT0082 Homo sapiens cDNA
9108	21791	34955	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-070082-140300-063-008 OT0082 Homo sapiens cDNA
9497	22077	35247	0.68	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
9497	22077	35248	0.68	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
10850	23531	36776	5.73	1.0E-105	AF294822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11196	23890	37146	1.59	1.0E-105	D63348.1	NT	Homo sapiens COL4A9 gene for $\alpha 4(V)$ collagen, exon 31
11250	23912	37204	2.38	1.0E-105	7705936	NT	Homo sapiens Run binding protein 11 (LOC51194), mRNA
11980	24179	37494	2.58	1.0E-105	AW027554.1	EST_HUMAN	W74807.x1 Soares, thymus_NHFT11 Homo sapiens cDNA clone IMAGE:2635301 3' similar to TR:P87892 P87892 PROTEASE ;
11875	24270	37582	1.43	1.0E-105	BF430821.1	EST_HUMAN	7c18c10.x1 NCI CGAP_Kd11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
11831	24415	37753	1.73	1.0E-105	AB004924.1	NT	RIN1. ;
11831	24415	37754	1.73	1.0E-105	AB004924.1	NT	Homo sapiens gene for Smad 3, exon 2 and 3
147	12882		1.39	1.0E-105	AB004924.1	NT	Homo sapiens gene for Smad 3, exon 2 and 3
200	13013	25654	1.79	1.0E-105	AW503208.1	EST_HUMAN	U1H-BND-4b-g-07-0-UI17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3976348 5'
529	13313	25947	2.68	1.0E-105	AW595568.1	EST_HUMAN	U1H-BND-4b-g-07-0-UI17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3976348 5'
591	13371	26000	0.76	1.0E-105	AW00146.1	NT	EST137629 MAGE sequences, MAGE Homo sapiens cDNA
592	13371	26000	2.08	1.0E-105	AW00146.1	NT	Human dihydrofolate reductase pseudogene (pdt-hd1)
1816	14282	26848	1.33	1.0E-105	AF145712.1	NT	Human dihydrofolate reductase pseudogene (pdt-hd1)
1697	14440	27138	3.48	1.0E-105	U48724.1	NT	Homo sapiens soluble neurotrophin-1 mRNA, complete cds
1796	14536	27245	4.71	1.0E-105	AA527446.1	EST_HUMAN	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1796	14536	27246	4.71	1.0E-105	AA527446.1	EST_HUMAN	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
2118	14948	27578	2.31	1.0E-105	BE144296.1	EST_HUMAN	LR3 repetitive element ;
2315	15040	27778	2.86	1.0E-105	4504184	NT	LR3 repetitive element ;
2610	15322	28064	1.82	1.0E-105	BE280201.1	EST_HUMAN	MRO-H10165-140200-008-d10 HT0105 Homo sapiens cDNA
2761	15408	28210	3.24	1.0E-105	AI27626.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2828	14159	28842	1.91	1.0E-105	4504184	NT	601148783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502491 5'
							q176h10.x1 Soares_NHMPU_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
							Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA

Page 434 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	14159	28843	1.81	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2942	15707	28357	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
2942	15707	28358	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3178	15638	28588	2.18	1.0E-106	8822963	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3178	15638	28589	2.18	1.0E-106	8822963	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3367	16128	28784	0.81	1.0E-106	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3434	16190	28839	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	28391	7.95	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	28392	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST388875 MAGE sequences, MAGN Homo sapiens cDNA
4035	16780	29410	1.06	1.0E-106	AW974650.1	EST_HUMAN	EST388875 MAGE sequences, MAGN Homo sapiens cDNA
4562	17297	28924	1.4	1.0E-106	BE144286.1	EST_HUMAN	Homo sapiens API6-like 1 (API6L1), mRNA
5135	17853	30489	1.06	1.0E-106	AL050253.1	NT	Homo sapiens mRNA similar to D229763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tolloid, Sushi repeat proteins
5135	17853	30470	1.09	1.0E-106	AL050253.1	NT	Homo sapiens mRNA similar to D229763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tolloid, Sushi repeat proteins
5285	18090	30750	2.61	1.0E-106	AA781155.1	EST_HUMAN	424509.s1 Scarsa, Lucilla, NMT Homo sapiens cDNA clone 1391225 3' similar to gb:U12433 PROTEIN
5784	18555	31490	0.58	1.0E-106	AU130113.1	EST_HUMAN	PHF-S1-2 (HUMAN);
5784	18555	31481	0.58	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5818	18605	31533	0.58	1.0E-106	AA434108.1	EST_HUMAN	zw28012.s1 Scarsa, Lucilla, NMT Homo sapiens cDNA clone NT2RP3000274 5'
5904	18689	31637	1.3	1.0E-106	AU143428.1	EST_HUMAN	zw28012.s1 Scarsa, Lucilla, NMT Homo sapiens cDNA clone IMAGE:770915 3'
5904	18689	31638	1.3	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6011	18782	31795	4.89	1.0E-106	BF679574.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6033	18892	31800	0.77	1.0E-106	BE987112.1	EST_HUMAN	602154072.F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4289007 5'
6329	19095	32083	17.66	1.0E-106	BE987112.1	EST_HUMAN	601439070.F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6329	19095	32084	17.66	1.0E-106	BE987112.1	EST_HUMAN	Homo sapiens xylorhaminase II (XT2), mRNA
7271	19955	33031	5.16	1.0E-106	AA633770.1	EST_HUMAN	Homo sapiens xylorhaminase II (XT2), mRNA
7324	20007	33084	5.33	1.0E-106	11429817	NT	6072807.s1 Stragane, Lucilla, NMT Homo sapiens cDNA clone IMAGE:389732 3' similar to gb:U12433 PROTEIN
7402	20080	33161	1.21	1.0E-106	BE282722.1	EST_HUMAN	KINESIN HEAVY CHAIN (HUMAN);
7511	20182	33275	9.29	1.0E-106	11425503	NT	Homo sapiens XPM23 protein (LOC357106), mRNA
7511	20182	33276	9.29	1.0E-106	11425503	NT	601105799.F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2888345 5'
7714	20378	33491	0.87	1.0E-106	AU116890.1	EST_HUMAN	Homo sapiens sorting nexin 11 (SNX11), mRNA
7714	20378	33491	0.87	1.0E-106	AU116890.1	EST_HUMAN	Homo sapiens sorting nexin 11 (SNX11), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7884	20579	33707	6.44	1.0E-106	BE741408.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
7884	20579	33708	6.44	1.0E-106	BE741408.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8074	20766	33907	1.38	1.0E-106	A1523066.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8527	21219	34361	0.47	1.0E-106	BE387950.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8527	21219	34362	0.47	1.0E-106	BE387950.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8607	21289	34443	3.64	1.0E-106	A1654123.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8950	21941	34788	0.68	1.0E-106	AW838831.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9045	21735	34859	3.28	1.0E-106	AA925307.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9045	21735	34860	3.28	1.0E-106	AA925307.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9188	21856	35021	1.26	1.0E-106	A1760447.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9329	21986	35169	1.8	1.0E-106	A1479599.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9329	21986	35170	1.8	1.0E-106	A1479599.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9602	22551	35746	1.19	1.0E-106	BE389234.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9684	22632	35841	1.09	1.0E-106	BF027310.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
9684	22632	35842	1.09	1.0E-106	BF027310.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10141	22769	36003	6.22	1.0E-106	AA004417.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10141	22769	36004	6.22	1.0E-106	AA004417.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10165	22833	36047	1.6	1.0E-106	AW383289.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10358	23005	36222	0.53	1.0E-106	AL039886.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10479	23126	36394	2.81	1.0E-106	AL163202.2	NT	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10812	23495	36730	7.1	1.0E-106	BF032755.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10812	23495	36731	7.1	1.0E-106	BF032755.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10965	23668	36826	2.22	1.0E-106	J06200.1	NT	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
10965	23668	36826	2.22	1.0E-106	J06200.1	NT	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
11384	23981	37282	1.91	1.0E-106	BE267385.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
11532	24132	37436	1.35	1.0E-106	BE010882.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
11532	24132	37437	1.35	1.0E-106	BE010882.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
11981	25184	37694	6.77	1.0E-106	AW410405.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
12193	24994	31088	3.32	1.0E-106	BE604468.1	EST_HUMAN	601584331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'

Page 436 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12103	24654	31069	3.32	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12408	24781		4.6	1.0E-106	BE965905.1	EST_HUMAN	RG1-CT0248-060800-024-d05 CT0248 Homo sapiens cDNA
228	13040		4.42	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudocentromeric region; segment 172
258	13066		1.26	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
607	13385		4.03	1.0E-107	4828963	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
610	13394	26028	1.89	1.0E-107	AF155103.1	NT	Homo sapiens NT-REN-26 antigen mRNA, partial cds
888	13635	26305	1.52	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
948	13714	26379	11.55	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1255	14004	26673	0.73	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1562	14309	26696	3.71	1.0E-107	BF087403.1	EST_HUMAN	QV2-HT0540-120800-359-d05 HT0540 Homo sapiens cDNA
1746	14488	27187	1.55	1.0E-107	AF155275.1	NT	Homo sapiens cathespain Z precursor (CTSZ) gene, exon 3
1832	14571	27283	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1832	14571	27284	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2205	14933	27671	0.85	1.0E-107	U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2362	15084	27622	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN00031-190100-001-d03 CN0031 Homo sapiens cDNA
2362	15084	27623	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN00031-190100-001-d03 CN0031 Homo sapiens cDNA
2535	15250	27991	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2535	15250	27992	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28421	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN00031-190100-001-d03 CN0031 Homo sapiens cDNA
3007	15773	28422	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN00031-190100-001-d03 CN0031 Homo sapiens cDNA
3088	15861	28502	2.63	1.0E-107	6602067	NT	Homo sapiens SMRT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3906	16556	29190	5.14	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 6
5637	18335	31242	0.88	1.0E-107	AW98038.1	EST_HUMAN	EST381115 IMAGE resequences, MAGK Homo sapiens cDNA
5775	18566	31495	3.2	1.0E-107	BE867489.1	EST_HUMAN	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3840494 5'
6823	19484	32606	1.45	1.0E-107	11431489	NT	Homo sapiens general transcription factor IIC, polypeptide 1 (alpha subunit, 22KD) (GTF3C1), mRNA
6823	19484	32607	1.45	1.0E-107	11431486	NT	Homo sapiens general transcription factor IIC, polypeptide 1 (alpha subunit, 22KD) (GTF3C1), mRNA
7263	19947	33023	1.42	1.0E-107	AW503913.1	EST_HUMAN	UHF-BND-af-09-0-U11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'
7263	19947	33024	1.42	1.0E-107	AW503913.1	EST_HUMAN	UHF-BND-af-09-0-U11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'
7428	20106	33163	1.46	1.0E-107	AJ765078.1	EST_HUMAN	W59804X1 NCI_CGAP K311 Homo sapiens cDNA clone IMAGE:2884761 3'
7690	20354	33469	0.6	1.0E-107	AW410061.1	EST_HUMAN	fl086d1.12 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2864521 5'
9267	22041	35213	0.95	1.0E-107	AJ122469.1	EST_HUMAN	AJ122469 MAMMAT Homo sapiens cDNA clone MAMMAT1002433 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10003	22297	36537	3.18	1.0E-107	AB22850.1	EST_HUMAN	1010404.x1 NGL CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI
10898	23548	36794	14.26	1.0E-107	L49141.1	NT	P05095 ALPHA-ACTININ 3, NON MUSCULAR ; Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
10890	23560	36807	1.71	1.0E-107	BF66611.1	EST_HUMAN	602123363F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4281039 5'
11293	23684	37252	6.86	1.0E-107	BE540350.1	EST_HUMAN	60106681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11997	23178	36405	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11367	23178	36406	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37788	1.36	1.0E-107	4506970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
11843	24427	37789	1.36	1.0E-107	4506970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
12043	25328		5.86	1.0E-107	AA001415.1	EST_HUMAN	z445601.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:361044 3' similar to contains THR.b1
835	13702	26367	2.66	1.0E-108	BE266042.1	EST_HUMAN	THR1 negative element ;
1242	13991	26657	1.87	1.0E-108	Y18000.1	NT	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
						NT	Homo sapiens NF2 gene
2428	15149	27883	4.97	1.0E-108	BE206694.1	EST_HUMAN	b226510.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863869 3' similar to gb:X33777.60S
3344	16103	28755	0.71	1.0E-108	AF032897.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN), gb:J06277 Mouse hexokinase mRNA, complete cds (MOUSE); Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
3344	16103	28756	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4136	16878	29507	1.14	1.0E-108	AW694438.1	EST_HUMAN	h121211.x1 NGL CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2672060 3' similar to SW:38P1_MOUSE
4489	17225	29853	2.18	1.0E-108	U72961.1	NT	P55194 SH3-BINDING PROTEIN 3BP-1 ;
4489	17225	29854	2.18	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4782	17484	30113	1.74	1.0E-108	7861979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4896	17623	30241	2.8	1.0E-108	AJ08005.1	NT	Homo sapiens PSN1 gene, alternative transcript
6391	18191	30683	1.16	1.0E-108	AW384094.1	EST_HUMAN	RC04HT0372-241169-031-033 HT0372 Homo sapiens cDNA
5440	18239	30694	1.7	1.0E-108	BE86016.1	EST_HUMAN	601444622F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3946960 5'
5440	18239	30695	1.7	1.0E-108	BE86016.1	EST_HUMAN	601444622F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3946960 5'
5837	18626		0.96	1.0E-108	AF012623.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
						NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6046	18628	31790	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6046	18628	31791	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6199	19046	31918	1.27	1.0E-108	AJ133289.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S822, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6295	18907	31660	0.92	1.0E-108	BF334651.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6321	19287	32280	0.93	1.0E-108	AF016708.1	NT	Homo sapiens E3AP ubiquitin-protein ligase (UBES3A) gene, exon 4
6521	19287	32291	0.93	1.0E-108	AF016708.1	NT	Homo sapiens E3AP ubiquitin-protein ligase (UBES3A) gene, exon 4
7057	19748	32811	5.82	1.0E-108	11431837	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPCR5B), mRNA
7339	20020	33068	3.55	1.0E-108	4758333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS6) mRNA
7371	20057	33137	1.16	1.0E-108	BE52807.1	EST_HUMAN	60113471F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354084 5'
7405	20082	33164	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCJ CGAP_Brn87 Homo sapiens cDNA clone IMAGE:4181037 5'
7406	20082	33165	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCJ CGAP_Brn87 Homo sapiens cDNA clone IMAGE:4181037 5'
7963	20458	33838	1.88	1.0E-108	AF083900.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8014	20709	33839	0.48	1.0E-108	AW408994.1	EST_HUMAN	UHF-BNO-act-6-12-QUI1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8014	20709	33839	0.48	1.0E-108	AW408994.1	EST_HUMAN	UHF-BNO-act-6-12-QUI1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8845	21636	34781	0.75	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
8884	21674	34823	0.54	1.0E-108	N44974.1	EST_HUMAN	y95h10.1 Sources melanocyte 2N6-HM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR445773
10565	20368	33481	1.73	1.0E-108	BE535227.1	EST_HUMAN	A45773 kelch protein, long form - full ty:
10731	17911	30597	1.98	1.0E-108	Y12490.1	NT	801058760F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3446361 5'
10996	23671	36928	1.39	1.0E-108	AF223391.1	NT	Homo sapiens mRNA for Gdgl-associated microtubule-binding protein (GMAP-210)
11239	23902	37191	3.82	1.0E-108	AW996165.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11294	23955	37253	2.2	1.0E-108	AV708790.1	EST_HUMAN	EST378268 IMAGE resequences, MAGI Homo sapiens cDNA
11294	23955	37254	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAE03 5'
11343	24033	37254	1.87	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAE03 5'
11405	24054	37359	1.68	1.0E-108	D83539.1	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
12204	24671	31072	2.41	1.0E-108	AK024447.1	NT	Homo sapiens COL4A9 gene for alpha(V) collagen, exon 23
12983	24608	24608	8.32	1.0E-108	BF346356.1	EST_HUMAN	Homo sapiens mRNA for FLJ003037 protein, partial cds
41	12889	25488	0.87	1.0E-108	AW803116.1	EST_HUMAN	802018571F1 NCJ CGAP_Brn87 Homo sapiens cDNA clone IMAGE:4154287 5'
62	12880	25623	0.97	1.0E-108	D86974.1	NT	IL2-HM0077-380400-079-D08 UN0077 Homo sapiens cDNA
220	13031	25667	1.59	1.0E-108	11498391	NT	Homo sapiens mRNA for KIAA0220 gene, partial cds
454	13240	25878	5.59	1.0E-108	4507712	NT	Homo sapiens reticulocalcin 1, EF-hand calcium binding domain (RCN1), mRNA
584	13364	25962	26.8	1.0E-108	AB023216.1	NT	Homo sapiens tetrahydrocapside repeat domain 2 (TTG2) mRNA
584	13364	25962	26.8	1.0E-108	AB023216.1	NT	Homo sapiens mRNA for KIAA0699 protein, partial cds
1180	13933	26598	10.97	1.0E-108	N29896.1	NT	Homo sapiens mRNA for KIAA0699 protein, partial cds
							Homo sapiens nuclear phosphoprotein B23 (NIPM1) mRNA, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1181	13633	28508	4	1.0E-109	M28696.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPB21) mRNA, complete cds
1183	13633	28508	3.31	1.0E-109	BE283673.1	EST_HUMAN	601186022F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2850836 5'
1533	14280	28687	3.31	1.0E-109	BE283673.1	EST_HUMAN	601186022F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2850836 5'
1533	14280	28688	3.31	1.0E-109	BE283673.1	EST_HUMAN	601186022F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2850836 5'
1867	14605	27315	3.3	1.0E-109	D19643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2237	14606	27705	1.78	1.0E-109	AI163284.2	NT	Homo sapiens chromosome 21 segment HS210384
2248	14676	27714	1.89	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 genes, exon 6
2828	15340	28084	3.98	1.0E-109	AN22328.1	EST_HUMAN	ov65a01.x1 Scores: fetal liver, spleen, 1NFLS S1 Homo sapiens cDNA clone IMAGE:1654538 3' similar to TR:002197 002197 CIRCULATING CATHOLIC ANTIGEN. ;
2828	15340	28085	3.98	1.0E-109	AK22328.1	EST_HUMAN	ov65a01.x1 Scores: fetal liver, spleen, 1NFLS S1 Homo sapiens cDNA clone IMAGE:1654538 3' similar to TR:002197 002197 CIRCULATING CATHOLIC ANTIGEN. ;
2828	16341	28086	2.07	1.0E-109	4504208	NT	Homo sapiens guanylate cyclase activator 1A (refine) (GUCA1A) mRNA
3054	16820	28464	2.22	1.0E-109	N85100.1	EST_HUMAN	J2816F Human fetal heart 1 Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3383	18142	28739	3.14	1.0E-109	AW863192.1	EST_HUMAN	GK3-NN0008-190400-150-F10 NN0009 Homo sapiens cDNA
3383	18142	28800	3.14	1.0E-109	AW863192.1	EST_HUMAN	GK3-NN0008-190400-150-F10 NN0009 Homo sapiens cDNA
3508	18204	28818	1.21	1.0E-109	AF240098.1	NT	Homo sapiens retinal dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3548	18303	28863	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3548	18303	28864	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3823	18573	28957	2.59	1.0E-109	BE146144.1	EST_HUMAN	MRP-HT0208-110400-108-404 HT0209 Homo sapiens cDNA
3874	18723	28957	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0909 protein, partial cds
3974	18723	28958	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0909 protein, partial cds
4127	18889	28497	3.88	1.0E-109	AA656417.1	EST_HUMAN	ts98608.x1 NCL_GGAP_G08 Homo sapiens cDNA clone IMAGE:2238330 3' similar to WPF53A.2
4141	18933	28512	1.02	1.0E-109	AA656274.1	EST_HUMAN	CE16100.1
4141	18983	28513	1.02	1.0E-109	AA656274.1	EST_HUMAN	CE16100.1
4371	17109	28744	2.48	1.0E-109	4504208	NT	mu63c12.s1 NCL_GGAP_P22 Homo sapiens cDNA clone IMAGE:1218292 3' similar to SW:GTT2_HUMAN
4581	17293	28923	1.89	1.0E-109	7662083	EST_HUMAN	mu63c12.s1 NCL_GGAP_P22 Homo sapiens cDNA clone IMAGE:1218292 3' similar to SW:GTT2_HUMAN
4867	17595	30218	1.27	1.0E-109	R15400.1	EST_HUMAN	mu63c12.s1 NCL_GGAP_P22 Homo sapiens cDNA clone IMAGE:1218292 3' similar to SW:GTT2_HUMAN
4892	17715	30320	1.39	1.0E-109	BE283673.1	EST_HUMAN	Homo sapiens glutamate cyclase activator 1A (refine) (GUCA1A) mRNA
4892	17715	30321	1.39	1.0E-109	BE283673.1	EST_HUMAN	Homo sapiens glutamate cyclase activator 1A (refine) (GUCA1A) mRNA
5167	17978	30354	0.81	1.0E-109	AU137282.1	EST_HUMAN	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
5179	17988	30353	1.05	1.0E-109	BF673718.1	EST_HUMAN	ye18606.r1 Scores: tritrit brain 1NIB Homo sapiens cDNA clone IMAGE:55057 5'
							601186022F2 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2850836 5'
							601186022F2 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2850836 5'
							601186022F2 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2850836 5'
							AU137282 PLAGE1 Homo sapiens cDNA clone PLACE1006159 5'
							602138446F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272922 5'

Page 440 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) HIT BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5230	18036	30962	3.09	1.0E-109	5174822	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5520	18318		1.11	1.0E-109	BE178358.1	EST_HUMAN	RC1-UT0015-200400-022-004 HT0015 Homo sapiens cDNA
5838	25078	31580	0.84	1.0E-109	BF370688.1	EST_HUMAN	GM1-UT0038-080900-380-007 UT0038 Homo sapiens cDNA
5907	18318		1.6	1.0E-109	BE178358.1	EST_HUMAN	RC1-UT0016-200400-022-004 HT0016 Homo sapiens cDNA
7140	18827	32890	0.97	1.0E-109	AB046811.1	NT	Homo sapiens mRNA for KIAA1191 protein, partial cds
7484	20138	33220	3.99	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7486	20140	33232	6.28	1.0E-109	BF182707.1	EST_HUMAN	601809468F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7498	20140	33233	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809468F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7674	20338	33451	0.57	1.0E-109	BE283297.1	EST_HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3100229 5'
8073	20787	33896	1.48	1.0E-109	ALD40784.1	NT	Novel human gene mapping to chromosome 13
8183	20877	34014	0.99	1.0E-109	AW746130.1	EST_HUMAN	PMO-BT0340-091299-202-003 BT0340 Homo sapiens cDNA
8555	21247		2.77	1.0E-109	AA077488.1	EST_HUMAN	7B18H01 Chromosome 7 Field Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8633	21325	34466	8.42	1.0E-109	BE787640.1	EST_HUMAN	601478417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8633	21325	34467	8.42	1.0E-109	BE787640.1	EST_HUMAN	601478417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8876	21567	34711	0.56	1.0E-109	BE146672.1	EST_HUMAN	LD-HT0205-071109-142-g01 HT0205 Homo sapiens cDNA
9137	21825	34980	1.91	1.0E-109	H84800.1	EST_HUMAN	Y90008.11 Soares retina N2b5R Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
9250	21828	35101	0.63	1.0E-109	BE307068.1	EST_HUMAN	A53491 BLUMETANIDE-SENSITIVE NA-K-C1 COTRANSPORTER - SPINNY
9250	21929	35102	0.63	1.0E-109	BE307068.1	EST_HUMAN	601289780F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820030 5'
9384	22046	35218	2.64	1.0E-109	FO6604.1	EST_HUMAN	601289780F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820030 5'
10673	23364	36006	1.71	1.0E-109	BE540008.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
10673	23364	36007	1.71	1.0E-109	BE540008.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449589 5'
10673	23364	36007	1.71	1.0E-109	BE540008.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449589 5'
10710	23399	36638	15.79	1.0E-109	BF664831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245941 5'
10888	23568	36816	1.55	1.0E-109	78822719	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
10888	23568	36819	1.55	1.0E-109	78822719	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11069	23739	37013	1.8	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11342	24032	37336	2.72	1.0E-109	45028338	NT	Homo sapiens Cheek-Higher syndrome 1 (CHS1) mRNA
11383	23980	37291	11.8	1.0E-109	W16610.1	EST_HUMAN	Z008B12121 Soares fetal lung NRH119W Homo sapiens cDNA clone IMAGE:301439 5' similar to
11848	24280	37602	1.49	1.0E-109	11418618	NT	PIR-S43960 S43960 p64-beta stress-activated protein kinases - rat
11848	24322	37773	1.27	1.0E-109	BF339540.1	EST_HUMAN	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
11848	24322	37774	1.27	1.0E-109	BF339540.1	EST_HUMAN	602330030F1 NCL_OGAP_Bm84 Homo sapiens cDNA clone IMAGE:4188753 5'
12112	14976	27714	2.1	1.0E-109	Y17123.1	NT	602330030F1 NCL_OGAP_Bm84 Homo sapiens cDNA clone IMAGE:4188753 5'
12328	14976	27714	2.79	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/N11 gene, exon 8
							Homo sapiens SNF5/N11 gene, exon 8

Page 441 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12493	24813	31047	2.08	1.0E-109	AB011389.1	NT	Homo sapiens gene for AF-6, complete cds
3	12831	25444	1.85	1.0E-110	7549804	NT	Homo sapiens dectinase, lisdihydrate, type II (DIO2), transcript variant 2, mRNA
36	12884	25482	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
36	12884	25483	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
79	12905	25543	0.7	1.0E-110	C04498.1	EST_HUMAN	C04498 Human heart cDNA (Yakamura) Homo sapiens cDNA clone 3NH33467
107	12851	25444	2.26	1.0E-110	7549804	NT	Homo sapiens dectinase, lisdihydrate, type II (DIO2), transcript variant 2, mRNA
514	13288	25930	1.54	1.0E-110	U84550.1	NT	Homo sapiens dyshydroin (DTN) gene, exon 20
1157	13912	25575	0.8	1.0E-110	5031620	NT	Homo sapiens calcitonin receptor-like (CALCR), mRNA
1256	14005	25974	0.8	1.0E-110	AB032263.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1914	14651	27361	1.19	1.0E-110	BE378477.1	EST_HUMAN	801237545F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3609683 5'
2051	14784	27361	1.6	1.0E-110	BF068868.1	EST_HUMAN	U-H-B14-see-b-05-0-UJ1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3685784 3'
2845	15613	28603	1	1.0E-110	4603098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (matrilin-associated) (CSPG4), mRNA
3189	15652	28604	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3189	15652	28604	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4031	16776	29407	1.09	1.0E-110	BE018556.1	EST_HUMAN	b682605.Y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048948 5' similar to TR:060312 060312
4891	17326	29851	2.14	1.0E-110	AD17213.1	EST_HUMAN	KIAA0566 PROTEIN
4891	17326	29851	2.14	1.0E-110	AD17213.1	EST_HUMAN	alpha2b10.x1 Soares NPL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627693 3' similar to
4891	17341	29872	3.9	1.0E-110	AU117812.1	EST_HUMAN	SW-N121_RAT P83891 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121
4916	17844	30042	2.7	1.0E-110	7662441	NT	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5212	18020	30042	2.63	1.0E-110	BE299406.1	EST_HUMAN	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5339	18434	31347	0.8	1.0E-110	BE621069.1	EST_HUMAN	60118710F1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3028538 5'
5656	18451	31396	8.61	1.0E-110	11418323	NT	601493077F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3685795 5'
5656	18451	31396	8.61	1.0E-110	11418323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6617	20098	32395	8.08	1.0E-110	M55112.1	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
7002	19694	32746	0.8	1.0E-110	U06888.1	NT	Human cyclic fibroblast transmembrane conductance regulator (CFTR) gene, exon 7
7002	19694	32747	0.8	1.0E-110	U06888.1	NT	Human GS2 gene, exon 2
7224	19609	32983	0.74	1.0E-110	A1560289.1	EST_HUMAN	Human GS2 gene, exon 2
7325	20008	33085	6.9	1.0E-110	AV714276.1	EST_HUMAN	Int12608.x1 NCI CGAP_B2B5 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7325	20008	33086	8.0	1.0E-110	AV714276.1	EST_HUMAN	P90549 ETS TRANSLATION VARIANT 1
7355	20038	33114	3.21	1.0E-110	AB020675.1	NT	AV714276 DDB Homo sapiens cDNA clone DDB030501 6'
7469	20143	33235	0.83	1.0E-110	AU137623.1	EST_HUMAN	AV714276 DDB Homo sapiens cDNA clone DDB030501 6'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
9234	21013	39087	7.88	1.0E-110	BE302594.1	EST_HUMAN	668801.Y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2305581 5' similar to TR:077258 OT7258
9476	22128	36308	2.39	1.0E-110	AW636394.1	EST_HUMAN	EG-114D6.2 PROTEIN;
10221	22699	39081	3.45	1.0E-110	11432732	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
10848	23339	36578	3.64	1.0E-110	Y1237.1	NT	Homo sapiens mRNA for myotonic dystrophy protein kinase like protein
10887	23587	36816	3.75	1.0E-110	BE734357.1	EST_HUMAN	H. sapiens mRNA for myotonic dystrophy protein kinase like protein
10887	23587	36817	3.75	1.0E-110	BE734357.1	EST_HUMAN	601565004F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							601565004F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							zaf7g02.f1 Sources: Jaffe, NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
							G1145816.FKBP54;
11420	23187	36418	2.45	1.0E-110	AA446529.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3624548 5'
11839	24466		4.54	1.0E-110	BE587218.1	EST_HUMAN	IL0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
12061	24576		11.71	1.0E-110	AW082258.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
12290	24720		1.44	1.0E-110	AB011939.1	NT	q631G12x1 Sources: fragment, Jaffe, NHT Homo sapiens cDNA clone IMAGE:1711222 3'
12346	24753		1.35	1.0E-110	A1127761.1	EST_HUMAN	FN3-NN1082-140900-006-F12 NN1082 Homo sapiens cDNA
12420	25339		3.25	1.0E-110	BF364543.1	EST_HUMAN	U1-H-B14-506-5-06-0-U1.s1 NCL CGAP_Su58 Homo sapiens cDNA clone IMAGE:3085784 3'
12701	14784		1.45	1.0E-110	BF508898.1	EST_HUMAN	Human ribosomal protein L23a mRNA, complete cds
170	12983		10.84	1.0E-111	U43701.1	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
191	13004	29645	1.05	1.0E-111	4758807	NT	801458631F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3862088 5'
718	13492		2.38	1.0E-111	BF08327.1	EST_HUMAN	Homo sapiens cat eye syndrome critical region gene 1 (CESCR1), mRNA
726	13500	26154	5.13	1.0E-111	8363092	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
906	13673	26338	3.82	1.0E-111	M25142.1	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
1624	14371	27090	1.43	1.0E-111	7862177	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 28, 30, 31, and 32
2234	14982	27701	1.02	1.0E-111	AF036128.1	NT	Homo sapiens DKFZP434D150 protein (DKFZP434D150), mRNA
4150	16862	29522	1.08	1.0E-111	K02268.1	NT	Homo sapiens enkephalin B (enkeB) gene, exon 4 and 3' flank and complete cds
4295	17034	29662	4.38	1.0E-111	K02268.1	NT	Homo sapiens phosphatase kinase, alpha 1 (muscle) (PHKA1), mRNA
4981	17425	30057	8.38	1.0E-111	4505778	NT	601443950F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3947655 5'
5544	18341	31249	1.06	1.0E-111	BE967608.1	EST_HUMAN	qp69g12.x1 NCL CGAP_KG65 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M26963 RAS-RELATED PROTEIN RALA (HUMAN);
5942	18724	31683	1.96	1.0E-111	A1344678.1	EST_HUMAN	DKFZP434C1815.1 t1 434 (synonym: t143) Homo sapiens cDNA clone DKFZP434C1816 5'
6590	19343	32357	1.16	1.0E-111	AL040782.1	EST_HUMAN	U1-H-BW0-414-03-0-U1.e1 NCL CGAP_Su58 Homo sapiens cDNA clone IMAGE:2728525 3'
6709	19524	32698	1.06	1.0E-111	AW204048.1	EST_HUMAN	IL2-NT0101-280700-114-ES1 NT0101 Homo sapiens cDNA
7347	20028	33104	2.99	1.0E-111	BF368228.1	EST_HUMAN	w68601.x1 NCL CGAP_KG612 Homo sapiens cDNA clone IMAGE:2399465 3' similar to gb:J04813
7433	20110	33198	0.82	1.0E-111	AT01228.1	EST_HUMAN	CYTROCHROME P450 IIIA5 (HUMAN);

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7614	20185	33279	0.6	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
7693	20688	33815	0.73	1.0E-111	AA278698.1	EST_HUMAN	zr79g03.1 NCL CGAP GC81 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1265410
7993	20688	33816	0.73	1.0E-111	AA278698.1	EST_HUMAN	G1265410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8088	20782	33912	0.82	1.0E-111	11431896	NT	G1265410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8139	20633	33967	3.28	1.0E-111	U96533.1	NT	G1265410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8579	21271	34409	0.79	1.0E-111	11420510	NT	Homo sapiens protein X0001 (LOC61185), mRNA
8674	21368	34513	0.73	1.0E-111	AK024453.1	NT	Human beta4-integrin (ITGB4) gene, exon 13
8707	21369		1.57	1.0E-111	AF177987.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
8708	21400		8.05	1.0E-111	BF214002.1	EST_HUMAN	Homo sapiens mRNA for FL00045 protein, partial cds
8782	21474	34620	12.9	1.0E-111	X17033.1	NT	Homo sapiens cDNA sodium-calcium potassium exchanger splice variant (NCXK) mRNA, complete cds
8782	21474	34621	12.9	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
8890	21876	34825	2.8	1.0E-111	AF091395.1	NT	Human mRNA for integrin alpha-2 subunit
9217	21886	35066	0.46	1.0E-111	BF333210.1	EST_HUMAN	Homo sapiens Tiro lactam mRNA, complete cds
10052	22700	35917	3.21	1.0E-111	AA004190.1	EST_HUMAN	Q12-BT0817-270650-368-406 BT0817 Homo sapiens cDNA
10080	22728		2.4	1.0E-111	D10083.1	NT	sa68902.1 NCL CGAP GC81 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:U09235
10172	22820	36038	6.24	1.0E-111	AA131248.1	EST_HUMAN	VAGJOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
10673	23849	36902	4.26	1.0E-111	U68190.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
11405	24088	37376	2.74	1.0E-111	AF761071.1	EST_HUMAN	281801.1 Scores, fragment, uterus, NHRPU Homo sapiens cDNA clone IMAGE:503546 5'
11897	24494	37602	3.72	1.0E-111	11417801	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12424	24800	31040	1.51	1.0E-111	AF708482.1	EST_HUMAN	cn07e11.x1 Norml Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn07e11 random
12572	17914	30589	1.56	1.0E-111	AB035356.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MNT), mRNA
594	13372	28001	1.29	1.0E-112	U29103.1	NT	AV708482 ADO Homo sapiens cDNA clone ADCA0808 5'
596	13374	28003	12.55	1.0E-112	U29103.1	NT	Homo sapiens mRNA for neurokin 1-beta protein, complete cds
606	13374	28004	12.55	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13395	28029	1.86	1.0E-112	BF500039.1	EST_HUMAN	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13395	28030	1.86	1.0E-112	BF500039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
981	13746	28408	8.84	1.0E-112	AF157623.1	NT	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
1040	13800	28458	2.2	1.0E-112	P52742	SWISSPROT	UHL-BH-act-g-04-QJL1 NCL CGAP Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							UHL-BH-act-g-04-QJL1 NCL CGAP Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
							ZINC FINGER PROTEIN 133

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1679	14423	27117	4.39	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1679	14423	27119	4.39	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2194	14823	27657	1.37	1.0E-112	AJ76925.1	EST_HUMAN	W80006.x1 NCL_CGAP_K12 Homo sapiens cDNA clone IMAGE:2406113
2512	15229	27659	1.1	1.0E-112	BE86859.1	EST_HUMAN	601442874F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3846859 5'
3076	15842		1.15	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3355	16116	28770	0.7	1.0E-112	AK29611.1	EST_HUMAN	wk45812.x1 NCL_CGAP_P22 Homo sapiens cDNA clone IMAGE:2418335 3' similar to gb:M81650_mn1
3864	16614	29253	0.74	1.0E-112	BE076073.1	EST_HUMAN	SEMNOCOLIN 1 PROTEIN PRECURSOR (HUMAN)
4565	17300	29627	1.39	1.0E-112	4504116	NT	MR2-5T0590-090300-113-09 B10560 Homo sapiens cDNA
4704	17437	30068	4.9	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4704	17437	30069	4.9	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5681	18378	31291	40.71	1.0E-112	NA6046.1	EST_HUMAN	y95d07.r1 Soares melanocyte 2N1HM Homo sapiens cDNA clone IMAGE:273228 5'
5865	18786	31730	1.04	1.0E-112	AF146773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6155	18932	31868	1.43	1.0E-112	BE741066.1	EST_HUMAN	601594717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3945557 5'
6369	19138	32134	0.68	1.0E-112	BF672615.1	EST_HUMAN	602152648F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'
6539	19304	32308	0.71	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
6539	19304	32309	0.71	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
6741	19575	32607	1.13	1.0E-112	BF574235.1	EST_HUMAN	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7236	19821	32965	1.87	1.0E-112	11416777	NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLC8A7), mRNA
7236	19821	32966	1.87	1.0E-112	11416777	NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLC8A7), mRNA
7729	20120	33507	0.58	1.0E-112	BF213358.1	EST_HUMAN	601846096F1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:4076302 5'
8063	20787	33918	1.73	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA100273 5'
8858	21547	34694	2.09	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3847285 5'
8858	21547	34695	2.09	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3847285 5'
9763	22444	35649	2.15	1.0E-112	BF111413.1	EST_HUMAN	730907.x1 Soares NSF_P8_9W_OT_P_51 Homo sapiens cDNA clone IMAGE:3522020 3' similar to
10677	23398	36611	2.86	1.0E-112	AW963327.1	EST_HUMAN	TR-09VW35 Q9VW35 C98743 PROTEIN ;
10868	23548	36796	3.37	1.0E-112	AJ246900.1	NT	MR3-SN0006-100400-108-912 SN0006 Homo sapiens cDNA
11040	23711	36981	1.82	1.0E-112	BE280479.1	EST_HUMAN	Homo sapiens mRNA for secreted intracellular calcium-binding protein (smoc1 gene)
11109	23779	37053	1.59	1.0E-112	AJ762003.1	EST_HUMAN	6011553323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'
							qk24c08.y6 NCL_CGAP_K28 Homo sapiens cDNA clone IMAGE:1868902 5' similar to TR:Q84362 Q84362
							FUSED TOES ;

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8992	21692	34830	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3827854 5'
8992	21692	34831	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3827854 5'
9301	21988	31755	0.93	1.0E-113	BE772967.1	EST_HUMAN	RC1-F10134-280800-021-c02 F10134 Homo sapiens cDNA
9830	22381	35593	1.4	1.0E-113	11428367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
9830	22381	35593	0.45	1.0E-113	M21535.1	NT	Human erg protein (est-related gene) mRNA, complete cds
9950	22568	35802	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9950	22568	35802	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10514	23190	36386	0.61	1.0E-113	AW500517.1	EST_HUMAN	U1-HF-BN0-a4-b-10-Q-U1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
10515	23191	36387	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:4333280 5'
10516	23191	36388	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:4333280 5'
11067	23737	37011	1.83	1.0E-113	AW500519.1	EST_HUMAN	U1-HF-BN0-a4-b-12-Q-U1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11076	23746	37019	2.84	1.0E-113	AW500291.1	EST_HUMAN	h881a09.y1 NCL_CGAP_G01 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA00684 PROTEIN;
11076	23746	37020	2.84	1.0E-113	AW500291.1	EST_HUMAN	h881a09.y1 NCL_CGAP_G01 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA00684 PROTEIN;
11181	18998	31974	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11181	18998	31975	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11227	23890	37177	2.81	1.0E-113	BE292868.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2883366 5'
11481	24082	37393	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCL_CGAP_G01 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEF1_HUMAN P39748 FLAP ENDONUCLEASE-1;
11481	24082	37394	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCL_CGAP_G01 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEF1_HUMAN P39748 FLAP ENDONUCLEASE-1;
630	13409	26045	6.8	1.0E-114	T70551.1	EST_HUMAN	y415c01.s1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:103283 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains A1 repetitive element;
1049	13908	26468	1.7	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1290	14039	26712	5.09	1.0E-114	7857529	NT	Homo sapiens nucleolar tumor deletion region protein 1 (RTDR1), mRNA
1957	14413	27104	4.27	1.0E-114	6079073	NT	Homo sapiens nucleolar tumor deletion region protein 1 (NLP_1), mRNA
2807	12871	25491	1.28	1.0E-114	ABC33102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2807	12871	25492	1.28	1.0E-114	ABC33102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3128	15983	26537	2.75	1.0E-114	X04096.1	NT	Homo gene for cathepsin (EC 1.1.1.9) exon 2 mapping to chromosome 11, band p13
3169	15932	26581	1.02	1.0E-114	BF200374.1	EST_HUMAN	60188932F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3997	16745	29377	2.61	1.0E-114	AF146773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4358	17096	29731	0.72	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds

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5084	17783	30400	1.05	1.0E-114	BE275324.1	EST_HUMAN	60122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346098 5'
5315	18119	30775	1.26	1.0E-114	4506880	NT	Homo sapiens scera domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5316	18119	30776	1.26	1.0E-114	4506880	NT	Homo sapiens scera domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5508	18306	31207	0.97	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTGL1), transcript variant 2, mRNA
6134	18812	31881	0.64	1.0E-114	Z20286.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 20
6868	17974	30531	0.82	1.0E-114	4759163	NT	Homo sapiens sparc/osteonectin, ovov and kazal-like domains proteoglycan (testis) (SPOCK) mRNA
6977	19459	32894	0.95	1.0E-114	AB041533.1	NT	Homo sapiens HCMOBT-1 mRNA for sperm antigen, complete cds
7139	19826	32895	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7139	19826	32895	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7182	19868	32941	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7182	19868	32942	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7792	20487	33610	2.82	1.0E-114	A393139.1	EST_HUMAN	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8087	20761	33880	1.92	1.0E-114	A393139.1	EST_HUMAN	q66005.X1 NCI CGAP_Bm28 Homo sapiens cDNA clone IMAGE:2017163 3'
8087	20761	33880	1.92	1.0E-114	A393139.1	EST_HUMAN	q66005.X1 NCI CGAP_Bm28 Homo sapiens cDNA clone IMAGE:2017163 3'
8602	21284	34437	3.61	1.0E-114	U85041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
8605	21357	34505	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8605	21357	34506	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8681	21770	34923	0.49	1.0E-114	BF108832.1	EST_HUMAN	769912.X1 Soresc_NSF_F9_OW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3528847 3' similar to
8314	21881	35155	6.83	1.0E-114	AW327455.1	EST_HUMAN	TR-084H98 Q9UHN8 TRANSMEMBRANE PROTEIN 2 ;
8363	20433	33555	2.8	1.0E-114	AF077154.1	NT	q63055.X1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
8448	22125	33555	1.03	1.0E-114	MT19356.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
10039	22867	33505	1.08	1.0E-114	BE870004.1	EST_HUMAN	Human centropalestin mRNA
10061	22709	33527	1.5	1.0E-114	AL163227.2	NT	601446752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10439	23086	36313	0.7	1.0E-114	BE171894.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
							MF01-HT0556-260200-002-007 HT0559 Homo sapiens cDNA
							bat7g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2900036 5' similar to gb:X17206.405
							RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20032 Mouse L1Rap3 protein mRNA from a repetitive element, complete (MOUSE)
10687	23378		3.15	1.0E-114	BE302686.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10789	23472	36714	1.71	1.0E-114	AF223391.1	NT	

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10789	28472	38715	1.71	1.0E-114	AF223891.1	NT	Homo sapiens calcium channel alpha1E subunit (CA1A1E) gene, exons 7-40, and partial cds, alternatively spliced
11145	23812	37094	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cDNA Homo sapiens cDNA clone cDNA08 5'
11145	23812	37095	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cDNA Homo sapiens cDNA clone cDNA08 5'
11798	24396	37719	1.7	1.0E-114	4758873.NT	NT	Homo sapiens LIM HOX gene 2 (LHX2) mRNA
11834	24418	37759	1.32	1.0E-114	1152631.7.NT	NT	Homo sapiens diaphanin, heavy polypeptide-like 1 (DIAPH1), mRNA
12334	25402	34502	3.42	1.0E-114	11418041.NT	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12577	24902	30898	4.93	1.0E-114	11034850.NT	NT	Homo sapiens hypothetical protein (DU1042K10.2), mRNA
12577	24902	30899	4.93	1.0E-114	11034850.NT	NT	Homo sapiens hypothetical protein (DU1042K10.2), mRNA
21	12849	25464	2.89	1.0E-115	4758111.NT	NT	Homo sapiens HLA-B associated transcript-1 (D8S81E) mRNA
127	12942	25585	2.03	1.0E-115	4505938.NT	NT	Homo sapiens keratin 18 (KRT18) mRNA
131	12849	25585	2.23	1.0E-115	4557887.NT	NT	Homo sapiens keratin 18 (KRT18) mRNA
288	13092	23733	2.23	1.0E-115	AW804759.1	EST_HUMAN	QV4.UIM0094-300300-155-508 UIM0094 Homo sapiens cDNA
523	13307	25639	0.99	1.0E-115	AU339206.1	EST_HUMAN	q00601.x1 NCL_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:000536 000536
523	13307	25640	0.99	1.0E-115	AU339206.1	EST_HUMAN	q00601.x1 NCL_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:000536 000536
769	13541	26201	1.36	1.0E-115	5174702.NT	NT	TTF-1 INTERACTING PEPTIDE 5:
769	13541	26202	1.36	1.0E-115	5174702.NT	NT	TTF-1 INTERACTING PEPTIDE 5:
771	13543	26204	40.4	1.0E-115	4503794.NT	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14298	26865	1.26	1.0E-115	AF229180.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1552	14298	26866	1.26	1.0E-115	AF229180.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1833	14572	27285	1.01	1.0E-115	U78027.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2078	14810	27541	0.96	1.0E-115	AB007802.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2208	15023	27738	2.13	1.0E-115	AF231124.1	NT	Homo sapiens Brulon's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FIP3 (FIP3) genes, complete cds
2855	15623	28618	6.22	1.0E-115	AJ245822.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
3113	15878	28518	6.22	1.0E-115	AJ245822.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
3466	16221	28875	1.6	1.0E-115	AJ277892.1	NT	Homo sapiens testicular-1 mRNA, complete cds
4021	19757	26397	3.67	1.0E-115	AB002348.2	NT	QV4.UIM0094-300300-155-508 UIM0094 Homo sapiens cDNA
4399	17107	29742	3.27	1.0E-115	AF227892.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4403	17140	29768	3.6	1.0E-115	AF227892.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4628	17363	29966	2.64	1.0E-115	AL089857.1	NT	Homo sapiens perlecan (PERL) gene for fibro
						NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
						NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
						NT	Homo sapiens EpiA4 (EPIA4) mRNA
						NT	Homo sapiens mRNA from chromosome 1, which has similarities to BAT2 genes

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4628	17363	26697	2.64	1.0E-115	AL006857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4848	17578	30201	3.51	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4848	17578	30202	3.51	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5263	18068	30698	1.62	1.0E-115	AW070395.1	EST_HUMAN	EST T882418 IMAGE resequencing, MAGK Homo sapiens cDNA
5338	18141	30802	0.78	1.0E-115	BF665387.1	EST_HUMAN	602119249F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5454	18253	31143	1.98	1.0E-115	11428128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5454	18253	31144	1.98	1.0E-115	11428128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5604	18400	31313	1.34	1.0E-115	A1928796.1	EST_HUMAN	a04401.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519588 3' similar to gbL07807 DYNAMIN-1 (HUMAN);
5604	18400	31314	1.34	1.0E-115	A1928796.1	EST_HUMAN	a04401.X1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519588 3' similar to gbL07807 DYNAMIN-1 (HUMAN);
6168	18945	31916	0.97	1.0E-115	11428788	NT	Homo sapiens sperm surface protein (HSS), mRNA
6168	18945	31917	0.97	1.0E-115	11428788	NT	Homo sapiens sperm surface protein (HSS), mRNA
6302	19076	32061	8.84	1.0E-115	11428038	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63439), mRNA
6434	19202	32186	2.04	1.0E-115	7881883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6434	19202	32189	2.04	1.0E-115	7881883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6835	19497	32521	0.83	1.0E-115	T86774.1	EST_HUMAN	y08608.1 Scores fetal liver spleen TNF α Homo sapiens cDNA clone IMAGE:118095 5' similar to SP-DPOG_YEAST P18801 DNA POLYMERASE GAMMA ;
7178	19864	32635	1.54	1.0E-115	A1076598.1	EST_HUMAN	cc31a06.X1 Scores total fetus NB21F8 6w Homo sapiens cDNA clone IMAGE:187614 3'
7178	19864	32636	1.54	1.0E-115	A1076598.1	EST_HUMAN	cc31a06.X1 Scores total fetus NB21F8 6w Homo sapiens cDNA clone IMAGE:187614 3'
7308	19991	33068	8.22	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
8050	20754	33885	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-001 ET0081 Homo sapiens cDNA
8090	20764	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-001 ET0081 Homo sapiens cDNA
8772	21404	34548	2.15	1.0E-115	11484772	NT	Homo sapiens autophagic translation initiation factor 4B (EIF4B), mRNA
9075	22327	35522	0.8	1.0E-115	BF362029.1	EST_HUMAN	601816352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5'
9890	22549	35743	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
9890	22549	35744	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10418	23064	36284	1	1.0E-115	A1221878.1	EST_HUMAN	qg9e09.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10418	23064	36285	1	1.0E-115	A1221878.1	EST_HUMAN	qg9e09.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10426	23072	36293	0.82	1.0E-115	A1624687.1	EST_HUMAN	h124e07.X1 NCL_OGAP_GLI1 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TR:O16129 O16129 PHENYLALANINE TRNA SYNTHETASE ;
10817	23310	36549	7.82	1.0E-115	AW571544.1	EST_HUMAN	x32708.X1 NCL_OGAP_UH1 Homo sapiens cDNA clone IMAGE:2830230 3' similar to SW:CAVP_CANIFA
10889	23549	36797	1.33	1.0E-115	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11225	23888	37174	1.54	1.0E-115	BE045890.1	EST_HUMAN	hg54c10.x1 NCL CGAP_Par3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG :
11225	23888	37176	1.54	1.0E-115	BE045890.1	EST_HUMAN	hg54c10.x1 NCL CGAP_Par3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG :
11374	23981	37281	2.27	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CAGNA1E) mRNA
11775	24398	37659	2.53	1.0E-115	BE255548.1	EST_HUMAN	80111744F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3352379 5'
11842	24428	37767	1.63	1.0E-115	AW884376.1	EST_HUMAN	QV5-OT0065-260390-137-112 OT0065 Homo sapiens cDNA
11920	24481		2.16	1.0E-115	AF240786.1	NT	Homo sapiens gliothione S-transferase theta 2 (GSTT2) and gliothione S-transferase theta 1 (GSTT1) genes, complete cds
559	13341	25690	1.98	1.0E-116	BE275502.1	EST_HUMAN	801121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'
783	13555	26216	2.21	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
839	13009		1.70	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
1890	14728	27447	2.55	1.0E-116	5174478	NT	Homo sapiens perlecanin (PCNT) mRNA
1990	14728	27448	2.55	1.0E-116	5174478	NT	Homo sapiens perlecanin (PCNT) mRNA
2090	15595	27552	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2090	15595	27553	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2305	16030	27787	1.95	1.0E-116	6463941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PHEF-1) mRNA
2340	16063		1.36	1.0E-116	U78308.1	NT	Human olfactory receptor cDNA, olfr17-01 (OR17-01) gene, olfactory receptor cDNA
2458	15178	27915	2.84	1.0E-116	AB018333.1	NT	Human olfactory receptor pseudo cDNA, olfr17-01 (OR17-01) gene, olfactory receptor cDNA
2738	15533	28183	1.53	1.0E-116	BE889256.1	EST_HUMAN	Homo sapiens mRNA for KIAA0790 protein, partial cds
3171	16934	28682	4.87	1.0E-116	L77570.1	NT	801513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3171	16934	28683	4.87	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric and
4345	17094	29713	2.43	1.0E-116	5031954.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric and
4803	17534	30156	1.57	1.0E-116	AB070698.1	EST_HUMAN	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
5187	18005	30627	0.87	1.0E-116	A1302062.1	EST_HUMAN	PM-BT1335-070498-019 BT1335 Homo sapiens cDNA
5889	18674	31619	4.4	1.0E-116	W42822.1	EST_HUMAN	q116040.x1 NCL CGAP_Lus8 Homo sapiens cDNA clone IMAGE:188686 3' similar to centrin element
6117	18995	31892	1.8	1.0E-116	AB046858.1	NT	MEZ28 repetitive element ;
6117	18995	31893	1.8	1.0E-116	AB046858.1	NT	zz24607.1 Scarsa, sarcomeric, fibroblasts, N-HSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW-MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6184	18661	31634	0.76	1.0E-116	BE408097.1	EST_HUMAN	Homo sapiens mRNA for KIAA1638 protein, partial cds
6421	18189		1.55	1.0E-116	BE158133.1	EST_HUMAN	Homo sapiens mRNA for KIAA1638 protein, partial cds
							801302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638764 5'
							MR2-HT0379-02100-102-b04 HT0379 Homo sapiens cDNA

Page 451 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe Seq ID NO.	Exon Seq ID NO.	ORF Seq ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	18544	32572	1.19	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (Nakamura) Homo sapiens cDNA clone 3NH0567
7102	16790	32855	5.74	1.0E-116	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCB6G0308 5'
8287	20961	34101	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8287	20961	34102	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8378	21071	34209	0.98	1.0E-116	AB04151.1	EST_HUMAN	GM-BT043-060299-075 BT043 Homo sapiens cDNA
8836	21528	34674	1.96	1.0E-116	BE565507.1	EST_HUMAN	013332368F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680980 5'
8897	21687	34837	1.81	1.0E-116	AI21632.1	EST_HUMAN	q109c05.1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:184168 3' similar to gb533741_mart FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
9573	22226	35411	1.52	1.0E-116	11416846	NT	Homo sapiens laminin, alpha 2 (merotin, congenital muscular dystrophy) (LAMA2), mRNA
10170	22818	36039	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase 1 (XT-1 gene)
10170	22818	36037	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase 1 (XT-1 gene)
10246	22894	36104	0.78	1.0E-116	BE158913.1	EST_HUMAN	QVA-H10401-261289-035-c08 HT0401 Homo sapiens cDNA
10586	23281	36519	2.4	1.0E-116	BF335946.1	EST_HUMAN	GM2-GT0482-300800-349-c06 GT0482 Homo sapiens cDNA
11080	23750	37025	2.85	1.0E-116	AB97140.1	EST_HUMAN	q441604.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1935102 3' similar to WP-B0495.7
12625	25297	37025	1.86	1.0E-116	AI134899.1	EST_HUMAN	DKFZp782L1110_r1 762 (synonym: hma2) Homo sapiens cDNA clone DKFZp782L1110 5'
545	13328	29596	1.67	1.0E-117	4828638	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1055	15556	28474	0.96	1.0E-117	AF124393.1	NT	Mus musculus fragile X-related protein 1 (Fxr1h) gene, exons 13a through 15
1747	14498	27188	1.02	1.0E-117	AF123320.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
1823	14582	27274	1.51	1.0E-117	MT9816.1	NT	Human apolipoprotein B-100 (apoB) gene, exon 10
2208	14936	27674	1.54	1.0E-117	AW957899.1	EST_HUMAN	EST336769 MAGE resequences, MAGE Homo sapiens cDNA
3292	18024	28674	1.64	1.0E-117	AA978114.1	EST_HUMAN	q332e11.at Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
3971	16720	29355	2.1	1.0E-117	AA318723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) H Homo sapiens cDNA 5' end similar to ribosomal protein L29
4310	17049	28674	2.03	1.0E-117	8959964	NT	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4538	17273	29805	2.95	1.0E-117	AL041210.1	EST_HUMAN	DKFZp434C1120_r1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434C1120 5'
4674	17408	30043	1.27	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4674	17408	30044	1.27	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4759	17461	30119	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4759	17461	30120	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4887	17614	30233	3.57	1.0E-117	AB020673.1	NT	Homo sapiens mRNA for KIAA0896 protein, complete cds
5136	17854	30471	0.73	1.0E-117	6912461	NT	Homo sapiens atrophin-1 Interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
5264	18070	30998	3.01	1.0E-117	BE730506.1	EST_HUMAN	601562865F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3532214 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6860	17637	30574	0.86	1.0E-117	AA323348.1	EST_HUMAN	EST28111 Cerebellum II Homo sapiens cDNA 5' end similar to zinc finger domain
7350	20031	33108	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shr) gene, 3' end of cds
7350	20031	33109	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shr) gene, 3' end of cds
7446	20122	33212	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7446	20122	33213	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7878	20573	33698	3.38	1.0E-117	AI960145.1	EST_HUMAN	wb86507.X1 NCL CGAP Brn25 Homo sapiens cDNA clone IMAGE:2488029 3' similar to TR.O75005
8210	20604	34039	2.29	1.0E-117	10834889	NT	EST0505 KIAA0477 PROTEIN.
8210	20604	34040	2.29	1.0E-117	10834889	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34141	0.56	1.0E-117	AI904161.1	EST_HUMAN	GM-BT043-090289-075 BT043 Homo sapiens cDNA
8310	21004	34142	0.56	1.0E-117	AI904161.1	EST_HUMAN	GM-BT043-090289-075 BT043 Homo sapiens cDNA
8310	21004	34142	2.25	1.0E-117	D16524.1	NT	Human gene for very low density lipoprotein receptor, exon 11
9199	21868	35033	2.07	1.0E-117	BE753922.1	EST_HUMAN	60156317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
9688	22338	35532	2.07	1.0E-117	BE753922.1	EST_HUMAN	60156317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
9846	25127	35997	2.9	1.0E-117	AF090033.1	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10469	23115	36345	1.11	1.0E-117	11420222	NT	Homo sapiens Drosophila Katch like protein (DKEELCHL), mRNA
10785	23449	36991	1.77	1.0E-117	D83776.1	NT	Human mRNA for KIAA0191 gene, partial cds
10884	23640	36991	2.88	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
10884	23640	36992	2.88	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37180	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11243	23905	37197	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11369	23978	37601	14.73	1.0E-117	BE206856.1	EST_HUMAN	601186203F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544286 5'
11587	24186	37602	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
11587	24186	37602	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
86	12898	26530	5.98	1.0E-118	AF161500.1	NT	Homo sapiens HSPC151 mRNA, complete cds
84	13268	26822	2.13	1.0E-118	AL45854.1	EST_HUMAN	DKFZp434i056_j1 434 (synonym: hta3) Homo sapiens cDNA clone DKFZp434i056 5'
804	13268	26822	5.97	1.0E-118	7857010	NT	DKFZp434i056_j1 434 (synonym: hta3) Homo sapiens cDNA clone DKFZp434i056 5'
894	15655	26326	0.86	1.0E-118	517480	NT	Homo sapiens hypoxanthine phosphoribosyl transferase 1 (HAT) mRNA
2227	14955	27684	2.04	1.0E-118	BE386705.1	EST_HUMAN	Homo sapiens atrio oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2227	14955	27684	2.04	1.0E-118	BE386705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804019 5'
2227	14955	27685	2.04	1.0E-118	BE386705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804019 5'
2229	15054	28199	1.06	1.0E-118	AW061729.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804019 5'
2744	15450	28199	2.61	1.0E-118	U07000.1	NT	EST338789 IMAGE resequences, MAGB Homo sapiens cDNA
2744	15450	28199	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3102	16460	28199	4.04	1.0E-118	Y13632.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3102	16460	28199	4.04	1.0E-118	Y13632.1	NT	Homo sapiens PRKY exon 7

Page 453 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3190	15953	28035	4.67	1.0E-118	AB347694.1	EST_HUMAN	qp01105.x1 NCI CGAP K045 Homo sapiens cDNA clone IMAGE:1916769 3'
3190	15953	28036	4.67	1.0E-118	AB347694.1	EST_HUMAN	qp01105.x1 NCI CGAP K045 Homo sapiens cDNA clone IMAGE:1916769 3'
4067	18811	29439	4.71	1.0E-118	D23600.1	NT	Human mRNA for ribosomal protein, complete cds
4656	17363	30028	0.9	1.0E-118	11425793	NT	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA
5337	18140	30800	1.87	1.0E-118	AF142824.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5337	18140	30801	1.87	1.0E-118	AF142824.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31247	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5543	18340	31248	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5694	18477	31395	1.24	1.0E-118	M55109.1	NT	Human cytochrome b5 oxidase transmembrane conductance regulator (CFTR) gene, exon 4
5772	18563	31491	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5853	18540	31578	1.49	1.0E-118	11420784	NT	Homo sapiens T-box 4 (TBX4), mRNA
6592	19355	32368	1.44	1.0E-118	4557732	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6592	19355	32369	1.44	1.0E-118	4557732	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6897	19699	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6897	19699	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
7500	20172	33264	5.63	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7733	20397	33512	0.86	1.0E-118	BF683272.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7872	20567	33693	2.17	1.0E-118	BE781223.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
8282	20976	34117	6.56	1.0E-118	BE002855.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
8282	20976	34117	6.56	1.0E-118	BE002855.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
8282	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
8288	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
8373	21295	34404	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8573	21295	34405	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34455	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8633	21624	34787	4.95	1.0E-118	BE263134.1	EST_HUMAN	DKFZp559K1824.1 986 (synonym: hhes3) Homo sapiens cDNA clone IMAGE:3160302 5'
8664	21695	34808	0.55	1.0E-118	AL046474.2	EST_HUMAN	DKFZp559K1824.1 986 (synonym: hhes3) Homo sapiens cDNA clone IMAGE:3160302 5'
9493	22146	35327	1.83	1.0E-118	7657018	NT	Homo sapiens hypothetical protein (D328E18.G1.1), mRNA
9886	22536	35731	0.88	1.0E-118	AL138321.1	EST_HUMAN	DKFZp5470017.1 547 (synonym: hhes3) Homo sapiens cDNA clone DKFZp5470017 5'
10274	22922	36134	1.88	1.0E-118	BF105407.1	EST_HUMAN	7n17600.x1 NCI CGAP Bm23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10395	23012	36227	0.46	1.0E-118	AW271289.1	EST_HUMAN	xx49a10.x1 NCL CGAP_K011 Homo sapiens cDNA clone IMAGE:2772683 3' similar to SW_B003 HUMAN 075926 GAMMA-BUTYROBETANE-2-OXOGLUTARATE DIOXYGENASE ;
10431	23071	36300	0.65	1.0E-118	AW268351.1	EST_HUMAN	UHL-BW0-40-a-07-01.1 NCL CGAP_S168 Homo sapiens cDNA clone IMAGE:272772 3'
11206	23869	37165	1.81	1.0E-118	BF865214.1	EST_HUMAN	902141628F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302768 5'
11236	23999	37186	1.8	1.0E-118	11055968	NT	Homo sapiens protein with polyglutamine repeat, calcium (ca2+) homeostasis endoplasmic reticulum protein (ERP70) (213-21), mRNA
11248	23908	37201	10.23	1.0E-118	AA315007.1	EST_HUMAN	EST1186314 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' and similar to dynamin, light chain 1, cytoplasmic
11548	24147	37457	1.68	1.0E-118	BE908076.1	EST_HUMAN	901499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11548	24147	37458	1.68	1.0E-118	BE908076.1	EST_HUMAN	901499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37461	1.61	1.0E-118	BF093987.1	EST_HUMAN	QV0-UM0091-120600-385-512 UM0091 Homo sapiens cDNA
11551	24150	37462	1.61	1.0E-118	BF093987.1	EST_HUMAN	QV0-UM0091-120600-385-512 UM0091 Homo sapiens cDNA
741	13514	28173	0.97	1.0E-119	AF170462.1	NT	Homo sapiens chloride channel CLCA4 (CLCA) mRNA, complete cds
1014	16658	28433	1.61	1.0E-119	7705907	NT	Homo sapiens CG1-105 protein (LOC81011), mRNA
1926	14692	27374	5.97	1.0E-119	AB023147.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
3099	15864	28606	1.57	1.0E-119	8022205	NT	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3234	15896		0.8	1.0E-119	AA916760.1	EST_HUMAN	on10606.s1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP-E04F6.2
3834	15894	28325	1.42	1.0E-119	4604116	NT	CE01214 ;
5253	18059	30686	2.5	1.0E-119	AU133390.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRUK1) mRNA
5258	18072	30701	21.82	1.0E-119	MB9914.1	NT	AU133399 NT2834 Homo sapiens cDNA clone NT28P4001991 5'
5270	18076	30708	3.11	1.0E-119	BE939121.1	EST_HUMAN	Human neurofilament (NF1) gene, complete cds
5347	18150	30830	1.63	1.0E-119	AF063731.1	EST_HUMAN	RC1-NN0073-250800-918-901 NN0073 Homo sapiens cDNA
5503	18301	31201	0.63	1.0E-119	AL134903.1	EST_HUMAN	AV583731 GK Homo sapiens cDNA clone GKGDH803 5'
5503	18301	31202	0.63	1.0E-119	AL134903.1	EST_HUMAN	DKFZp762M0710.J1 762 (synonym: lme2) Homo sapiens cDNA clone DKFZp762M0710 5'
6036	18818	31779	7.67	1.0E-119	AF150703.1	EST_HUMAN	DKFZp762M0710.J1 763 (synonym: lme2) Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31940	0.92	1.0E-119	AF135953.1	NT	q077006.x1 Score: 10.12811109 Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW-K1CJ_MOUSE_P02836 KERATIN, TYPE I CYTOSKELETAL 10 ;
6190	18967	31941	0.92	1.0E-119	AF135953.1	NT	SW-K1CJ_MOUSE_P02836 KERATIN, TYPE I CYTOSKELETAL 10 ;
6239	19013	31987	0.86	1.0E-119	AF1476732.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6370	19139	32135	2.62	1.0E-119	X06292.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6380	19149	32148	4.69	1.0E-119	AF074193.1	EST_HUMAN	Im23H10.x1 Score: 10.12811109 Homo sapiens cDNA clone IMAGE:2157451 3'
7310	19693	33070	1.6	1.0E-119	BE799614.1	EST_HUMAN	Homo c-fos-like proto-oncogene
8590	21262	34390	1.18	1.0E-119	BE016150.1	EST_HUMAN	EST186258 IMAGE reassurance, MAGM Homo sapiens cDNA
							801692006F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
							801280594F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:392526 5'

Page 455 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9807	22468	35883	1.16	1.0E-119	11036843	NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA
10008	22654	35887	0.55	1.0E-119	AH48706.1	EST_HUMAN	q43a1.1 x1 Scores, testis, NHT Homo sapiens cDNA clone IMAGE:1762764 3' similar to TR-O13458
10146	22704	36008	3.36	1.0E-119	AA486124.1	EST_HUMAN	G13468 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRHO.:
10401	23047	36293	1.29	1.0E-119	AJ287701.1	NT	aa3205.1 NC1 CGAP GCBT Homo sapiens cDNA clone IMAGE:814977 5'
10443	23086	36317	0.71	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 18-17
10443	23086	36318	0.71	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10208 (FLJ10208), mRNA
10517	23163	36390	4.16	1.0E-119	AB032261.1	NT	Homo sapiens hypothetical protein FLJ10208 (FLJ10208), mRNA
10865	23600	36913	2.38	1.0E-119	AJ287701.1	NT	Homo sapiens Sod mRNA for eukaryotic desaturase, complete cds
10865	23600	36914	2.38	1.0E-119	AJ287701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 18-17
10885	23660	36914	2.38	1.0E-119	AJ287701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 18-17
11159	23828		6.31	1.0E-119	BF569571.1	EST_HUMAN	602186072F1 NIH_MGC 43 Homo sapiens cDNA clone IMAGE:4310633 5'
12198	25326		2.16	1.0E-119	AW647519.1	EST_HUMAN	RC3-CT0212-240889-011-03 CT0212 Homo sapiens cDNA
204	13100	26741	1.43	1.0E-120	4607334	NT	Homo sapiens synaptotagmin 1 (SYNU1), mRNA
1018	13778	26438	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1018	13778	26440	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1405	14152	26832	2.31	1.0E-120	U44873.1	EST_HUMAN	Y40g12.1 Scores melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:273766 5'
1897	14343	27093	3.08	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1799	14539	27220	1.21	1.0E-120	4557290	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2100	14831	27585	0.92	1.0E-120	AB011390.1	NT	Homo sapiens gene for AF-6, complete cds
2100	14831	27586	0.92	1.0E-120	AB011390.1	NT	Homo sapiens gene for AF-6, complete cds
2331	15247	27685	6.24	1.0E-120	4755124	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3302	13100	26741	1.56	1.0E-120	4755124	NT	Homo sapiens synaptotagmin 1 (SYNU1), mRNA
4325	17094	29682	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4325	17094	29683	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4814	17349	29683	2.22	1.0E-120	AF068463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
4814	17349	29684	2.22	1.0E-120	AF068463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
5065	17784	30401	1.36	1.0E-120	4604116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5133	17851	30468	0.9	1.0E-120	A1190903.1	EST_HUMAN	q081f03 x1 Scores, testis, NHT Homo sapiens cDNA clone IMAGE:1735081 3'
5648	18444	31357	16.61	1.0E-120	BF568222.1	EST_HUMAN	q02183004F1 NIH_MGC 42 Homo sapiens cDNA clone IMAGE:4300174 5'
5648	18444	31358	16.61	1.0E-120	BF568222.1	EST_HUMAN	q02183004F1 NIH_MGC 42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32110	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
6350	19120	32111	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7471	20144	33236	1.77	1.0E-120	D34619.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
7795	20460	33612	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7795	20460	33813	5.22	1.0E-120	Y00087.1	NT	Human gene for neurofilament subunit M (NF-M)
8220	20924	34063	2.43	1.0E-120	BF337989.1	EST_HUMAN	60203352F1 NGL CGAP Brn64 Homo sapiens cDNA clone IMAGE:4183333 5'
8303	20927	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8303	20927	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8307	21001	34138	2.33	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8307	21001	34138	2.33	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8352	21045	34182	1.17	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
8401	22063	35233	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9401	22063	35234	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9845	22297	35492	3.75	1.0E-120	BF306641.1	EST_HUMAN	60188066F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122878 5'
9890	22312	35510	8.25	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9877	22328	35525	0.79	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
9972	22443		0.64	1.0E-120	AB044151.1	EST_HUMAN	GM-BT043-060299-075 B T043 Homo sapiens cDNA
9976	22624	35831	2.55	1.0E-120	AB028000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11071	23741	37015	3.72	1.0E-120	BE296397.1	EST_HUMAN	60117672F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11316	24007	37311	2.06	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11316	24007	37312	2.06	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11680	24247	37597	1.38	1.0E-120	U94774.1	NT	Human muscle cdc42p phosphatase (PYGM) gene, 5'UTR and exon 1
71	12808	25534	1.08	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
369	13165	26808	0.85	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000869 5'
707	15549	26130	1.31	1.0E-121	5932192.1	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF-1) mRNA
1688	14316	27001	2.81	1.0E-121	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1958	14604	27407	1.33	1.0E-121	4755139.1	NT	Homo sapiens insulin polyphosphate 4-phosphatase, type 1, 107HD (INPP4A), splice variant a, mRNA
1958	14604	27408	1.33	1.0E-121	4755139.1	NT	Homo sapiens insulin polyphosphate 4-phosphatase, type 1, 107HD (INPP4A), splice variant a, mRNA
1984	14700	27416	1.18	1.0E-121	MA56988.1	NT	Human prothymosin converting enzyme (NEC2) gene, exon 9
1984	14700	27416	1.18	1.0E-121	MA56988.1	NT	Human prothymosin converting enzyme (NEC2) gene, exon 9
2095	14826	27656	1.51	1.0E-121	U76831.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
3079	15944	29495	3.51	1.0E-121	Y16208.1	NT	Homo sapiens N-His3 gene for full length, exons 1 to 9
3079	15944	29495	3.51	1.0E-121	Y16208.1	NT	Homo sapiens N-His3 gene for full length, exons 1 to 9
3079	15944	29497	3.51	1.0E-121	Y16208.1	NT	Homo sapiens N-His3 gene for full length, exons 1 to 9
3525	16281	29536	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3525	16281	29537	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3686	16419	29690	7.35	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds

Table 4

Synaptic Exon Probes Expressed in Brain

[illegible]

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2844	16012	28280	1.41	1.0E-122	AF264717.1	NT	Homo sapiens FIVE domain-containing dual specificity protein phosphatase FIVE-DSP2 mRNA, complete cds
4796	17628	30148	5.04	1.0E-122	4802106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease sensitive) (APP), mRNA
4830	17958		1.46	1.0E-122	AW504945.1	EST_HUMAN	UHF-BNO-ali-a-03-0-UT NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3070048 5'
5476	18276	31170	1.36	1.0E-122	BE256039.1	EST_HUMAN	901113667F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354282 5'
6658	18276	31170	7.1	1.0E-122	BE256039.1	EST_HUMAN	901113667F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354282 5'
7113	19801	32865	0.73	1.0E-122	AA568871.1	EST_HUMAN	sk49h08.s1 Sources_testis NIH Homo sapiens cDNA clone IMAGE:1408399 3'
8695	21387	34530	0.85	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublet and mib-3 related transcription factor 1 (DMRT1)
8926	21617	34761	1.21	1.0E-122	11424216	NT	Homo sapiens left left gene (Drosophila) homolog 2 (LLGL2), mRNA
9223	21902	35073	1.19	1.0E-122	AJ356618.1	EST_HUMAN	q92h07.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW-MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
9223	21902	35074	1.19	1.0E-122	AJ356618.1	EST_HUMAN	q92h07.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW-MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
10034	22882	35869	1.05	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dbi (prob-oncogene)
10098	23588	36934	2.17	1.0E-122	AW956834.1	EST_HUMAN	EST387904 IMAGE resequencing, MAGD Homo sapiens cDNA
11358	24046	37349	1.86	1.0E-122	AB024088.1	NT	Homo sapiens gene for B120, exon 10
11938	24509		6.6	1.0E-122	11418187	NT	Homo sapiens phosphatidylinositol 1 (PIM1), mRNA
751	13523	20181	1.74	1.0E-123	BF345274.1	EST_HUMAN	602019058F1 NCL CGAP_Bm27 Homo sapiens cDNA clone IMAGE:4153970 5'
751	13523	20182	1.74	1.0E-123	BF345274.1	EST_HUMAN	602019058F1 NCL CGAP_Bm27 Homo sapiens cDNA clone IMAGE:4153970 5'
992	13764	29415	5.4	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment H9210349
1001	13761	29422	2.5	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (MMT7), mRNA
1216	13986	29834	5.58	1.0E-123	4505918	NT	Homo sapiens phosphatidylinositol 4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1216	13986	29835	5.58	1.0E-123	4505918	NT	Homo sapiens phosphatidylinositol 4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1438	14185	28871	0.91	1.0E-123	AJ358641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GNC2
2092	14823	27555	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27556	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27557	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2313	15038		3.62	1.0E-123	7705962	NT	Homo sapiens RAB8-like protein (LOC51209), mRNA
3246	18007	28857	0.85	1.0E-123	6812617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutaminyl cyclase) (GPC1), mRNA
5361	18163	30847	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinoid-binding protein (GRALBP) gene, complete cds

Page 459 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5361	18163	30848	1.58	1.0E-123	U34219.1	NT	Homo sapiens retinoid dehydrogenase-binding protein (RALBP) gene, complete cds
5494	18293	31191	1.52	1.0E-123	BE780746.1	EST_HUMAN	601561109F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6377	19146	32145	2.59	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
6905	19643	32989	1.2	1.0E-123	H33186.1	EST_HUMAN	Y84633.1 Soares fetal liver spleen INFILS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1, YEAST P14690 PROTEIN KINASE YAK1 ;
6915	19652	32998	1.25	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7094	19793	32949	2.87	1.0E-123	U56268.1	NT	Human HBRVONIN-CAM precursor (HBRVONIN-CAM) gene, complete cds
7302	19985	33061	1.62	1.0E-123	11529833	NT	Homo sapiens hesperan sulfite (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7542	20212	33312	1.3	1.0E-123	11436439	NT	Homo sapiens 2-O-deoxyadenosine synthetase 2 (OAS2), mRNA
7561	20221	33324	2.18	1.0E-123	BE263001.1	EST_HUMAN	601162818F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3606182 5'
7816	20511	33936	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
7816	20511	33937	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8433	21126	35183	1.13	1.0E-123	AW371924.1	EST_HUMAN	RC4-BT0311-261199-012-407 BT0311 Homo sapiens cDNA
9298	22023	35183	2.43	1.0E-123	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9405	22087	35239	15.48	1.0E-123	U09823.1	NT	Oryzopsis curvicaulis New Zealand white elongation factor-1 alpha (Rabelf2) mRNA, complete cds
11720	24314	37637	4.96	1.0E-123	BF077292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
11720	24314	37638	4.96	1.0E-123	BF077292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
262	13070	25708	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
262	13070	25709	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
298	13076	25706	2.90	1.0E-124	D67675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
473	13289	25808	2.84	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
675	13450	26092	2.68	1.0E-124	AA387551.1	EST_HUMAN	Z81504.11 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR-G300482
678	13450	26093	2.68	1.0E-124	AA387551.1	EST_HUMAN	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
742	13516	26174	7.84	1.0E-124	AF155654.1	NT	Z81504.11 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR-G300482
790	13592	26223	1.51	1.0E-124	4507500	NT	Human putative fibronectin protein S1 mRNA
884	13683	26321	1.94	1.0E-124	7705446	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1325	14074	26747	4.95	1.0E-124	AF274892.1	NT	Homo sapiens hypoxanthine phosphoribosyl transferase 1 (HGPRT), mRNA
1325	14074	26748	4.95	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exon 9, 10, and complete cds
1808	14548	27269	2.29	1.0E-124	AJ131712.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2054	14796	27512	3.05	1.0E-124	BE778524.1	EST_HUMAN	Homo sapiens mRNA for nuclear RNA-Helicase (nrl61 gene)
3358	16118	28174	0.85	1.0E-124	45041103	NT	601461715F1 NIH_MGC_99 Homo sapiens cDNA clone IMAGE:3933954 5'
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA

Page 460 of 536
Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3482	16239	28895	1.25	1.0E-124	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3482	16239	28896	1.25	1.0E-124	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3940	16383	29033	1.54	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EG 1.1.1.27) (and joined CDS)
3980	16830	29296	1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TAM1) mRNA
4058	16801	29432	1.34	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4690	17430	30061	1.94	1.0E-124	AB024098.1	NT	Homo sapiens gene for B120, exon 11
4881	17608		1.13	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDIII), exon x-1
5216	18023	30647	12.12	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5596	18393	31293	0.82	1.0E-124	4508786	NT	Homo sapiens Q motif containing GTPase activating protein 1 (CGAP1) mRNA
5797	18598	31514	0.94	1.0E-124	BF686135.1	EST_HUMAN	602124644FT NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6077	18858	31823	0.91	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone CuAADF07 5'
6339	19109	32056	0.98	1.0E-124	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
6912	19649	32695	2.06	1.0E-124	Y11717.1	NT	Musculus mRNA for hoxa3 gene
7037	19728	32786	0.94	1.0E-124	BE271285.1	EST_HUMAN	600943771FT NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'
7037	19728	32787	0.94	1.0E-124	BE271285.1	EST_HUMAN	600943771FT NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'
7452	20128	33220	0.82	1.0E-124	AA630331.1	EST_HUMAN	ac08R05.s1 Stragene HeLa cell s3 637216 Homo sapiens cDNA clone IMAGE:855897 3'
8156	20650	33982	8.07	1.0E-124	4500654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8362	21055	34105	1.26	1.0E-124	AW612108.1	EST_HUMAN	hg44609.x1 NCI_CGAP_K611 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR-065162
8362	21055	34106	1.26	1.0E-124	AW612108.1	EST_HUMAN	065162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
8060	21749	34007	0.61	1.0E-124	A1798864.1	EST_HUMAN	hg44609.x1 NCI_CGAP_K611 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR-065162
9060	21749	34008	0.61	1.0E-124	A1798864.1	EST_HUMAN	065162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9390	22052	35223	2.31	1.0E-124	AV645533.1	EST_HUMAN	wc45g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2921428 3'
9390	22052	35224	2.31	1.0E-124	AV645533.1	EST_HUMAN	wc45g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2921428 3'
9477	22130	35309	0.82	1.0E-124	AF022655.1	NT	AV645533 GLC Homo sapiens cDNA clone GLCAGE04 3'
9477	22130	35310	0.82	1.0E-124	AF022655.1	NT	AV645533 GLC Homo sapiens cDNA clone GLCAGE04 3'
9508	22161	35342	7.57	1.0E-124	A1787133.1	EST_HUMAN	Homo sapiens cap250 centrosome associated protein mRNA, complete cds
9508	22161	35343	7.57	1.0E-124	A1787133.1	EST_HUMAN	Homo sapiens cap250 centrosome associated protein mRNA, complete cds
9771	22422	35630	1.57	1.0E-124	AW503755.1	EST_HUMAN	w63602.x1 NCI_CGAP_K612 Homo sapiens cDNA clone IMAGE:2400891 3'
10804	23487		1.44	1.0E-124	11432087	NT	U1-HF-BN0-ek2b-04-0-J11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078446 5'
10978	23952	36905	1.81	1.0E-124	U04776.1	NT	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA
11305	23964	37265	3.51	1.0E-124	AW655933.1	EST_HUMAN	Human muscle glycogen phosphorylase (PYGM) gene, exons 8 through 17

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11462	23219	36452	3	1.0E-124	AJ440455.1	EST_HUMAN	f19e03.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:Q31682 Q31682 YKRS PROTEIN. ;
11462	23219	36453	3	1.0E-124	AJ440455.1	EST_HUMAN	f19e03.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:Q31682 Q31682 YKRS PROTEIN. ;
12026	13450	26062	4.1	1.0E-124	AA367551.1	EST_HUMAN	Z81104.r1 Strategene scilabo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
12026	13450	26063	4.1	1.0E-124	AA367551.1	EST_HUMAN	Z81104.r1 Strategene scilabo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
12464	24823	31026	1.91	1.0E-124	AB026016.1	NT	Homo sapiens mRNA for KIAA1083 protein, partial cds
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
146	12961	25603	1.74	1.0E-125	BE219510.1	EST_HUMAN	h9e0a08.x1 NCL_CGAP_Luz4 Homo sapiens cDNA clone IMAGE:3177696 3' similar to TR:Q25058 Q25058 FIBROPELIN IA ;
148	12961	25604	1.74	1.0E-125	BE219510.1	EST_HUMAN	h9e0a08.x1 NCL_CGAP_Luz4 Homo sapiens cDNA clone IMAGE:3177696 3' similar to TR:Q25058 Q25058 FIBROPELIN IA ;
311	13115	25604	5.49	1.0E-125	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
417	12626	25441	5.47	1.0E-125	BE743022.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3026886 5'
629	13408	26043	1.18	1.0E-125	AJ110656.1	EST_HUMAN	HA00986 Human fetal liver cDNA library Homo sapiens cDNA
629	13408	26044	1.18	1.0E-125	AJ110656.1	EST_HUMAN	HA00986 Human fetal liver cDNA library Homo sapiens cDNA
711	13465	26134	1.56	1.0E-125	AF264760.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
840	13610	26280	2.29	1.0E-125	AA042813.1	EST_HUMAN	z6530d7.s1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gp:x05887_cd1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPT7 (HUMAN);
978	13743	26405	1.22	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1131	13987	26645	1.76	1.0E-125	7662278	NT	Homo sapiens KIAA00722 gene product; histone deacetylase 7 (KIAA0744), mRNA
1698	15575	27105	0.99	1.0E-125	7661867	NT	Homo sapiens KIAA00224 gene product (KIAA0022), mRNA
1793	14533	27242	0.91	1.0E-126	U78027.1	NT	Homo sapiens Bricken's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27256	1.99	1.0E-125	AF015450.1	NT	Homo sapiens Uaustrin-alpha mRNA, complete cds
1804	14544	27259	1.99	1.0E-125	AF015450.1	NT	Homo sapiens Uaustrin-alpha mRNA, complete cds
2368	15080	27816	1.08	1.0E-126	AA011278.1	EST_HUMAN	Z81109.r1 Soares_fetal_liver_spleen_INFLS_31 Homo sapiens cDNA clone IMAGE:429569 5'
2608	15225	27967	0.99	1.0E-126	AA042813.1	EST_HUMAN	z6530d7.s1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gp:x05887_cd1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPT7 (HUMAN);
2604	15317	28057	1.3	1.0E-126	4504968	NT	Homo sapiens inhibin, alpha (INH4) mRNA
2604	15317	28056	1.3	1.0E-126	4504968	NT	Homo sapiens inhibin, alpha (INH4) mRNA

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3009	17674	28425	0.94	1.0E-125	BE018009.1	EST_HUMAN	b57400.v1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:Q65004 Q65004
3839	16590	28228	0.92	1.0E-125	AA042813.1	EST_HUMAN	ZINC FINGER PROTEIN, ;
4513	17248	29883	2.09	1.0E-125	11425114	NT	Z633207.s1 Soares, pregnant, uterus_Nih-HPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
4513	17248	29884	2.09	1.0E-125	11425114	NT	gb:XB05957.3 s1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);
4971	12981	25603	1.48	1.0E-125	BE219510.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4971	12981	25604	1.48	1.0E-125	BE219510.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5783	18574	31503	3.16	1.0E-125	11438448	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5802	18592	31517	0.91	1.0E-125	BE175109.1	EST_HUMAN	FIBROPELLEIN A;
5842	18630	31505	3.76	1.0E-125	BE922860.1	EST_HUMAN	h559403.x1 NCI_OGAP_Lu24 Homo sapiens cDNA clone IMAGE:3117088 3' similar to TR:Q25058 Q25058
5884	18570	31511	0.74	1.0E-125	AB779004.1	EST_HUMAN	FIBROPELLEIN A;
6188	15965	31638	0.8	1.0E-125	BE730055.1	EST_HUMAN	h559403.x1 NCI_OGAP_Lu24 Homo sapiens cDNA clone IMAGE:3117088 3' similar to TR:Q25058 Q25058
6486	19253	32253	1.63	1.0E-125	BE902526.1	EST_HUMAN	FIBROPELLEIN A;
6486	19253	32254	1.53	1.0E-125	BE562526.1	EST_HUMAN	Homo sapiens KIAA0085 protein (KIAA0085), mRNA
6661	19443	32450	5.28	1.0E-125	X03427.1	NT	QV2-HT0577-010500-165-b06 HT0577 Homo sapiens cDNA
6661	19443	32460	5.28	1.0E-125	X03427.1	NT	gb:U0577-010500-165-b06 HT0577 Homo sapiens cDNA
7706	20370	33453	0.55	1.0E-125	BE515100.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918832 5'
8444	21136	34273	0.99	1.0E-125	U60288.1	NT	h670741 NCI_OGAP_Gas4 Homo sapiens cDNA clone IMAGE:2265108 3' similar to WP:CA5G38.2
8444	21136	34274	0.99	1.0E-125	U60288.1	NT	CD1854;
9016	21706	34566	6.83	1.0E-125	BE181940.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3940097 5'
9016	21706	34567	6.83	1.0E-125	BE181940.1	EST_HUMAN	601335526F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689780 5'
9281	22035	36207	0.98	1.0E-125	AF585096.1	EST_HUMAN	601335526F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689780 5'
10350	22907	36215	0.93	1.0E-125	BE794578.1	EST_HUMAN	Homo sapiens IGF-II gene, exon 5
10391	23037	36283	1.06	1.0E-125	AB002298.1	NT	Homo sapiens IGF-II gene, exon 5
10581	23279	36514	3.23	1.0E-125	AF043458.1	NT	Homo sapiens IGF-II gene, exon 5
10798	23443	36698	1.61	1.0E-125	11429570	NT	Homo sapiens IGF-II gene, exon 5
11081	23751	37028	3.94	1.0E-125	AB014567.1	NT	Homo sapiens IGF-II gene, exon 5
							Homo sapiens mRNA for KIAA0687 protein, partial cds
							Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
							Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
							QV1-HT0633-070500-191-d12 HT0633 Homo sapiens cDNA
							QV1-HT0633-070500-191-d12 HT0633 Homo sapiens cDNA
							h52603.x1 NCI_OGAP_Kid1 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TR:Q14089 Q14089
							HYPOPHYLLIC PROTEIN ;
							601593346F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944531 5'
							Human mRNA for KIAA0300 gene, partial cds
							Human sapiens IREL gene, exon 5
							Homo sapiens Yarnocine receptor 1 (skatol) (RYR1), mRNA
							Homo sapiens mRNA for KIAA0687 protein, partial cds

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11260	23921	37213	1.74	1.0E-125	769505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11265	23927	37218	4.84	1.0E-125	AF028029.1	NT	Homo sapiens poly(A) binding protein II (PABP2), gene, complete cds
11371	23984	37284	1.02	1.0E-125	AW812866.1	EST_HUMAN	RC3-370166-250200-075-c11 ST0186 Homo sapiens cDNA
11486	24087	37387	3.58	1.0E-125	BE074287.1	EST_HUMAN	QV3-B70569-020200-075-g09 BT0590 Homo sapiens cDNA
11486	24087	37388	3.58	1.0E-125	BE074287.1	EST_HUMAN	QV3-B70569-020200-075-g09 BT0590 Homo sapiens cDNA
757	13529	26169	1.46	1.0E-126	4796807	NT	Homo sapiens CDC-like kinase (CLK) mRNA
899	13667	26331	1.45	1.0E-126	X68735.1	NT	H. sapiens gene for alpha1-antichymotrypsin, exon 3
2344	15067	27804	1.17	1.0E-126	8623056	NT	Homo sapiens hypothetical protein FL20048 (FLJ20048), mRNA
2344	15067	27805	1.17	1.0E-126	8623056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15318	28059	1.48	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3099	15835	28479	0.72	1.0E-126	4604116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3070	15836	28479	7.54	1.0E-126	AA160706.1	EST_HUMAN	2072603.1 Stratagene pancreas (#637208) Homo sapiens cDNA clone IMAGE:562420 5'
3070	15836	28480	7.54	1.0E-126	AA160706.1	EST_HUMAN	2072603.1 Stratagene pancreas (#637208) Homo sapiens cDNA clone IMAGE:562420 5'
3620	16373	29014	1.09	1.0E-126	X53941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3647	16400	29040	1.8	1.0E-126	7657038	NT	Homo sapiens death receptor 9 (DR9), mRNA
4763	17515	30137	1.74	1.0E-126	N34078.1	EST_HUMAN	y47606.t1 Soares melanocyte 2N81M Homo sapiens cDNA clone IMAGE:287850 5'
5078	17797	30413	0.81	1.0E-126	BE743022.1	EST_HUMAN	601877981FT NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3528885 5'
5816	18412	31325	0.68	1.0E-126	T06696.1	EST_HUMAN	y652612.s1 Soares fetal liver spleen TNF1S Homo sapiens cDNA clone IMAGE:06527 3'
6139	18917	31987	3.22	1.0E-126	AA490075.1	EST_HUMAN	z69403.t1 Soares, fetal, testis, N122-F8_9w Homo sapiens cDNA clone IMAGE:798444 5' similar to TR:G1149880 G1146880 TITIN;
6197	18973	31940	4.2	1.0E-126	AB040058.1	NT	Homo sapiens mRNA for KIAA1625 protein, partial cds
6197	18973	31950	4.2	1.0E-126	AB040058.1	NT	Homo sapiens mRNA for KIAA1625 protein, partial cds
7399	20077	33157	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9), complete cds
7399	20077	33158	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9), complete cds
7602	20266	33375	0.62	1.0E-126	AI136463.1	EST_HUMAN	AU1304433 PLAGE1 Homo sapiens cDNA clone IMAGE:1004325 5'
7655	20319	33428	0.99	1.0E-126	AB064483.1	EST_HUMAN	W0801.x1 Soares_NFL1_GBC_S1 Homo sapiens cDNA clone IMAGE:2350008 3' similar to SW:MP22_HUMAN Q14108 MAOUK P55 SUBFAMILY MEMBER 2;
7778	20473	33508	0.76	1.0E-126	AB037715.1	NT	SW:MP22_HUMAN Q14108 MAOUK P55 SUBFAMILY MEMBER 2;
7778	20473	33507	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7887	20682	33711	2.55	1.0E-126	X16809.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
						NT	Human mRNA for anklyrin (variant 2.1)
						EST_HUMAN	ne74612.s1 NCLCGAP_Ewt1 Homo sapiens cDNA clone IMAGE:308983 similar to SW:TS08_HUMAN P98098 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR;
8083	20777	33907	0.99	1.0E-126	AA483398.1	EST_HUMAN	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA
9080	22348	36539	0.87	1.0E-126	4505424	NT	

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10683	23384	36024	1.27	1.0E-126	M63196.1	NT	Human macrophage mannose receptor (MRC1) gene, exon 5
10766	23450	36982	2.36	1.0E-126	BE683175.1	EST_HUMAN	602139138F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4288240 5'
11501	24102	37414	5.47	1.0E-126	BE201060.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
12480	17797	30413	7.17	1.0E-126	BE743922.1	EST_HUMAN	60157781F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3320685 5'
168	12982	26622	4.83	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12982	26623	4.83	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12982	26622	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12982	26623	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13076	25716	3.54	1.0E-127	D87676.1	NT	Homo sapiens mRNA for amyloid precursor protein, complete cds
267	13076	25717	3.54	1.0E-127	D87676.1	NT	Homo sapiens mRNA for amyloid precursor protein, complete cds
801	13030	26301	2.03	1.0E-127	AF114488.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
808	13054	26330	1.37	1.0E-127	U72621.2	NT	Homo sapiens short isoform (IISN) mRNA, complete cds
1688	14430	27126	1.06	1.0E-127	4827053	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
2058	14790	27515	2.44	1.0E-127	5803006	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LLRA1), mRNA
2058	14790	27516	2.44	1.0E-127	5803006	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LLRA1), mRNA
2197	14926	27661	6.02	1.0E-127	4506820	NT	Homo sapiens ribosomal protein L28 (RPL28) mRNA
2341	15004	27801	2.73	1.0E-127	AF246606.1	NT	Homo sapiens adenosine mRNA, complete cds
2814	15326	28068	3.04	1.0E-127	X12881.1	NT	Human mRNA for cyclin B1
2826	15338	28081	1.1	1.0E-127	AA450131.1	EST_HUMAN	242402.7 Soares fetal testis Nb2HF8 9w Homo sapiens cDNA clone IMAGE:789008 5'
2826	15338	28082	1.1	1.0E-127	AA450131.1	EST_HUMAN	242402.7 Soares fetal testis Nb2HF8 9w Homo sapiens cDNA clone IMAGE:789008 5'
3791	16543	29178	1.21	1.0E-127	AW161287.1	EST_HUMAN	589003.1 Schneider field brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to repetitive element
4096	16838	29465	0.7	1.0E-127	AF135186.1	NT	TRQ15170 Q15170 TRANSCRIPTION FACTOR S-I-RELATED PROTEIN, contains element MER22
4227	16908	29592	23.74	1.0E-127	7706239	NT	Homo sapiens delayed rectifier potassium channel subunit 1aK mRNA, complete cds
4227	16908	29593	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51564), mRNA
4482	17198	29824	0.94	1.0E-127	AF252287.1	NT	Homo sapiens neuroblastoma-amplified protein (LOC51564), mRNA
4594	17289	29926	4.35	1.0E-127	4505364	NT	Homo sapiens cyclin B1 P450 ratlind metabolizing protein P450RAI-2 mRNA, complete cds
4594	17289	29926	1.92	1.0E-127	AL163268.2	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4625	17360	29863	1.26	1.0E-127	9612639	NT	Homo sapiens chromosome 21 segment HS21C088

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5620	18416	31326	1.37	1.0E-127	W03547.1	EST_HUMAN	z001a10.1) Soares melanocyte 2NHIM Homo sapiens cDNA clone IMAGE:261258 5' similar to SW-PIPO_RAT P1-0588 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5650	18446	31356	2.4	1.0E-127	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5713	18506	31426	4.25	1.0E-127	X85764.1	NT	H. sapiens NOS2 gene, exon 6
6070	18849	31813	2.17	1.0E-127	X84060.1	NT	H. sapiens TCF11 gene, exon 3-6
6229	19003	31979	5.28	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
6660	19325	32332	0.89	1.0E-127	11421593	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA
6682	19444	32481	0.81	1.0E-127	4826877	NT	Homo sapiens Perlecan (PDS) mRNA
7084	20348	33461	1.65	1.0E-127	11421814	NT	Homo sapiens reelin (RELN) mRNA
7091	20355	33470	0.84	1.0E-127	AW096292.1	EST_HUMAN	Homo sapiens Pseudotumor (PDS) mRNA
8785	21477	34625	0.8	1.0E-127	11427235	NT	QV3-BN0046-153300-121-H11 BN0048 Homo sapiens cDNA
8785	21477	34626	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9540	22193	35377	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9540	22193	35378	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9773	22424	35631	1	1.0E-127	A126832.1	EST_HUMAN	gna04H08.x1 NCL CGAP_Lus Homo sapiens cDNA clone IMAGE:1896449 3'
10241	22889	36101	1.34	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11107	23777	37050	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (hsc70-2) (H. sapiens) (LOC83184) mRNA
11107	23777	37051	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (hsc70-2) (H. sapiens) (LOC83184) mRNA
11827	24224	37648	3.26	1.0E-127	BE906416.1	EST_HUMAN	80143-784F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918617 5'
11827	24224	37647	3.25	1.0E-127	BE906415.1	EST_HUMAN	80143-784F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918617 5'
12244	12682	25622	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12244	12682	25623	2.26	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12444	12682	31048	2.88	1.0E-127	AB011396.1	NT	Homo sapiens gene for AF-4, complete cds
447	13233	25873	3.04	1.0E-128	BE385617.1	EST_HUMAN	801278-127F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3618622 5'
2068	14795	27520	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, intron/exon repeat regions
2069	14785	27521	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, intron/exon repeat regions
2206	14834	27672	8.76	1.0E-128	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2446	15165		1.1	1.0E-128	11437465	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140) mRNA
3389	16148	28802	1.08	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4610	17351	26908	6.14	1.0E-128	11423673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5458	18257	31147	0.7	1.0E-128	X69538.1	NT	H sapiens gene for triter-alpha-tyrosin inhibitor heavy chain H1, exon 12
5888	18672	31613	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580/468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928057 5'
5888	18672	31614	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580/468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928057 5'
5888	18672	31614	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580/468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928057 5'
6324	19084	32082	2.58	1.0E-128	11420865	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6831	19493	32516	6.9	1.0E-128	BE724348.1	EST_HUMAN	748810.11 NCL CGAP_L1024 Homo sapiens cDNA clone IMAGE:3905784 5'
7327	20070	33080	0.62	1.0E-128	BE614105.1	EST_HUMAN	601580/3846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905784 5'
7622	20356	33471	0.67	1.0E-128	11548523	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8446	21138	34276	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8446	21138	34277	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10037	22685	35803	1.63	1.0E-128	AA639186.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
10608	23302	36541	3.52	1.0E-128	11425234	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10618	23311	36550	3.21	1.0E-128	AA926959.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
10699	23360	36626	1.35	1.0E-128	AJ252060.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10761	23448	36689	1.4	1.0E-128	BE384475.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
12117	24610	26330	7.02	1.0E-128	AW955290.1	EST_HUMAN	EST:397360 MAGE resequencing, MAGE Homo sapiens cDNA
118	13180	26330	1.33	1.0E-128	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
404	13189	26330	1.19	1.0E-128	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1713	14456	27154	2.73	1.0E-128	AL096880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
1717	14460	27158	1.57	1.0E-128	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1717	14460	27158	1.57	1.0E-128	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1838	14578	27289	2.78	1.0E-128	11418522	NT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
3125	15860	28531	1.21	1.0E-128	Q14595	SWISSPROT	ZINC FINGER PROTEIN HZF10
3125	15860	28532	1.21	1.0E-128	Q14595	SWISSPROT	ZINC FINGER PROTEIN HZF10
3125	15860	28533	1.21	1.0E-128	Q14595	SWISSPROT	ZINC FINGER PROTEIN HZF10
4143	16885	28516	1.94	1.0E-128	AB040882.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
4247	16888	28611	2.26	1.0E-128	AW755254.1	EST_HUMAN	KIAA1459 Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to KIAA1459
4247	16888	28611	2.26	1.0E-128	AW755254.1	EST_HUMAN	KIAA1459 Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to KIAA1459
4247	16888	28612	2.26	1.0E-128	AW755254.1	EST_HUMAN	KIAA1459 Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to KIAA1459

467/536

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6000	18741	31742	3.73	1.0E-128	AJ005345.1	NT	Homo sapiens KVL0171 gene
6816	19477	32499	0.95	1.0E-128	BE589993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853698 5'
6816	19477	32500	0.95	1.0E-128	BE589993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853698 5'
6816	19477	32500	0.95	1.0E-128	AJ005345.1	NT	Homo sapiens KVL0171 gene
7027	19719	32778	4.15	1.0E-128	AJ005345.1	NT	Homo sapiens KVL0171 gene
7090	19779	32844	3.83	1.0E-128	11420850	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63594), mRNA
7428	20105	33191	2.49	1.0E-128	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7428	20105	33192	2.49	1.0E-128	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8217	20911	33535	3.94	1.0E-128	AB014534.1	NT	Homo sapiens mRNA for KIAA0534 protein, partial cds
9078	22827	36338	0.97	1.0E-128	AB014534.1	NT	Homo sapiens mRNA for KIAA0534 protein, partial cds
9078	22827	36338	0.97	1.0E-128	AB014534.1	NT	Homo sapiens mRNA for KIAA0534 protein, partial cds
10523	23169	36306	0.57	1.0E-128	AA582200.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
11186	23851	37137	4	1.0E-128	AA582200.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
11286	19779	32844	6.57	1.0E-128	11420850	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63594), mRNA
11815	24213	37637	1.38	1.0E-128	AI143115.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63594), mRNA
11815	24213	37638	1.38	1.0E-128	AI143115.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63594), mRNA
12104	24601		1.79	1.0E-128	H83155.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63594), mRNA
12483	24842		2.66	1.0E-128	AL120739.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63594), mRNA
74	12801	25538	1.3	1.0E-130	77059330	NT	Homo sapiens hypothetical protein (HSPC242), mRNA
1147	13902	26664	0.89	1.0E-130	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1661	14407	27068	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
1661	14407	27069	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
1976	14712		3.08	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.1.1.15) exon 9 mapping to chromosome 11, band p13
1976	14712		3.08	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.1.1.15) exon 9 mapping to chromosome 11, band p13
2173	15478		5.37	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2881	16548	28230	1.17	1.0E-130	BE564219.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'
2881	16548	28231	1.17	1.0E-130	BE564219.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'
3595	16320	28988	1.09	1.0E-130	AF240998.1	NT	Homo sapiens related dehydrogenase homolog isoform-1 (RDH1), complete cds
3750	15648	28230	6.36	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens related dehydrogenase homolog isoform-1 (RDH1), complete cds
3750	15648	28231	6.36	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens related dehydrogenase homolog isoform-1 (RDH1), complete cds
3750	15648	28231	6.36	1.0E-130	AW503580.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'
3915	16965	29305	1.92	1.0E-130	AW503580.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'
4053	16798	29428	1.5	1.0E-130	M87710.1	NT	Human T-cell receptor (V alpha 22.1, alpha RPMA1285-variant, C alpha 1) mRNA
4501	17237	29690	0.76	1.0E-130	AW363290.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'
5038	17757	30371	1.07	1.0E-130	AW363290.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'
5038	17757	30372	1.07	1.0E-130	AW363290.1	EST_HUMAN	601343010F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3855406 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6628	18391	32405	0.55	1.0E-130	X57825.1	NT	Human germline immunoglobulin lambda light chain pseudogene (VL1.1)
6723	19557	32587	0.81	1.0E-130	AW943875.1	EST_HUMAN	CNO-CH0045-170200-225-g03 CNO045 Homo sapiens cDNA
6723	19557	32588	0.81	1.0E-130	AW943875.1	EST_HUMAN	CNO-CH0045-170200-225-g03 CNO045 Homo sapiens cDNA
6736	19570	32602	0.76	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7154	19841	32910	2.62	1.0E-130	11419777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC9A7), mRNA
8582	21274	34553	0.45	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1), mRNA, complete cds
8723	21410	34553	2.39	1.0E-130	AW950242.1	EST_HUMAN	EST358312 IMAGE resequences, MAGD Homo sapiens cDNA
9114	21802	34967	1.04	1.0E-130	AB037768.1	EST_HUMAN	Homo sapiens mRNA for KIAA1335 protein, partial cds
9833	22494	36340	1.25	1.0E-130	AW103454.1	EST_HUMAN	X536605.1 NC1_GCAP_Ox23 Homo sapiens cDNA clone IMAGE:2595874.3
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens cortactin 6 (CNTN6), mRNA
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens cortactin 6 (CNTN6), mRNA
11242	23804	37104	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23804	37104	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23804	37104	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11703	24268	37624	2.87	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5), mRNA
12759	15478		1.56	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	12832	25445	1.9	0.0E+00	AA228126.1	EST_HUMAN	zr5804.1 Soares NIHMFu_S1 Homo sapiens cDNA clone IMAGE:667560.5 similar to TR-G222811
4	12832	25446	1.9	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
7	12834	25448	1.02	0.0E+00	4885136	NT	zr5804.1 Soares NIHMFu_S1 Homo sapiens cDNA clone IMAGE:667560.5 similar to TR-G222811
14	12841	25454	0.72	0.0E+00	8923349	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
14	12841	25455	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25462	6.7	0.0E+00	D63327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25463	6.7	0.0E+00	D63327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
25	12853	25468	17.04	0.0E+00	AF141346.1	NT	Homo sapiens DCRR1 mRNA, partial cds
33	12861	25478	1.19	0.0E+00	5902897	NT	Homo sapiens beta-tubulin mRNA, complete cds
35	12863	25481	0.82	0.0E+00	M58600.1	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
39	12867	25486	4.22	0.0E+00	6957928	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
55	12884	25512	0.76	0.0E+00	Y17151.2	NT	Homo sapiens RNA-binding protein S1, actin-rich domain (RNPS1), mRNA
55	12884	25513	0.76	0.0E+00	Y17151.2	NT	Homo sapiens RNA-binding protein S1, actin-rich domain (RNPS1), mRNA
58	12885	25514	3.04	0.0E+00	D78604.1	EST_HUMAN	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
58	12885	25514	3.04	0.0E+00	D78604.1	EST_HUMAN	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
58	12885	25514	3.04	0.0E+00	D78604.1	EST_HUMAN	HUM516r108B Human placenta polyA+ (TIF-gamma) Homo sapiens cDNA clone GEN-516r108.5
58	12885	25514	3.04	0.0E+00	D78604.1	EST_HUMAN	HUM516r108B Human placenta polyA+ (TIF-gamma) Homo sapiens cDNA clone GEN-516r108.5
57	12886	25516	5.76	0.0E+00	L16568.1	NT	Homo sapiens ribosomal protein L7 (RPL7), mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
50	12888	25519	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr4607.x1 Jia bone marrow stroma Homo sapiens cDNA clone HEMSC cr4607 3'
58	12888	25520	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr4607.x1 Jia bone marrow stroma Homo sapiens cDNA clone HEMSC cr4607 3'
53	12891	25524	1.5	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
65	12893	25536	0.91	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
73	12900	25537	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
73	12900	25537	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25538	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25537	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	12906	25544	0.78	0.0E+00	4501860	NT	Homo sapiens antifolate binding protein 1 (amine oxidase (copper-containing) (ABP1), nuclear gene encoding mitochondrial protein, mRNA)
81	12907	25544	15.25	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
90	12916	25553	17.68	0.0E+00	5018088	NT	Homo sapiens actin, beta (ACTB) mRNA
93	12919	25556	23.26	0.0E+00	U86277.1	NT	Human polyomavirus 1 homolog (HPV1) mRNA, partial cds
99	12925	25562	3.51	0.0E+00	AI114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
100	12926	25563	1.72	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
105	12928	25566	1.33	0.0E+00	X01213.1	NT	H. sapiens nct1 gene (exon 2)
113	12935	25572	0.89	0.0E+00	AI623701.1	EST_HUMAN	Is38505.x1 NCI CGAP U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q86551 Q86551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
114	12936	25572	1.47	0.0E+00	AI623701.1	EST_HUMAN	Is38505.x1 NCI CGAP U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q86551 Q86551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
115	12937	25573	1.48	0.0E+00	N30040.1	EST_HUMAN	Y01109.11 Scores melanocyte ZNF118 Homo sapiens cDNA clone IMAGE:270017 5'
115	12937	25573	1.48	0.0E+00	N30040.1	EST_HUMAN	Y01109.11 Scores melanocyte ZNF118 Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25588	4.38	0.0E+00	45018628	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220K) (POLR2A) mRNA
128	12943	25587	4.38	0.0E+00	45018628	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220K) (POLR2A) mRNA
135	12950	25593	1.26	0.0E+00	T59045.1	EST_HUMAN	y83904.12 Strategene fetal spleen (837205) Homo sapiens cDNA clone IMAGE:68310 5'
135	12950	25593	1.26	0.0E+00	T59045.1	EST_HUMAN	y83904.12 Strategene fetal spleen (837205) Homo sapiens cDNA clone IMAGE:68310 5'
149	12964	25604	8.88	0.0E+00	T59045.1	EST_HUMAN	y83904.12 Strategene fetal spleen (837205) Homo sapiens cDNA clone IMAGE:68310 5'
153	12968	25609	2.1	0.0E+00	BF039881.1	EST_HUMAN	601400376F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3629803 5'
155	12970	25613	25.83	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
158	12973	25612	1.15	0.0E+00	AF111106.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
160	12975	25613	1.1	0.0E+00	BE266973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3629804 5'
161	12975	25613	0.88	0.0E+00	BE266973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3629804 5'
162	12976	25614	5.4	0.0E+00	W73973.1	EST_HUMAN	z682505.1 Scores_fetal_NIH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to gb-X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
183	12877	25615	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-004 HT0457 Homo sapiens cDNA
183	12877	25616	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-004 HT0457 Homo sapiens cDNA
184	12078	25617	1.42	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
187	12881	25620	28.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
187	12881	25621	28.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
176	12888	25627	5.95	0.0E+00	BE018670.1	EST_HUMAN	b224e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2063854 5' similar to WP:Y57A10A.Z CE22831;
176	12888	25628	5.95	0.0E+00	BE018670.1	EST_HUMAN	b224e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2063854 5' similar to WP:Y57A10A.Z CE22831;
181	12883	25631	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
181	12883	25632	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
189	13002	25643	97.77	0.0E+00	D50850.1	NT	Human gamma-cytoplasmic actin (ACTGP8) pseudogene
194	13007	25648	3.74	0.0E+00	AF273046.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
194	13007	25649	3.74	0.0E+00	AF273046.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
196	13009	25651	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
196	13009	25652	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
205	15537	25658	9.26	0.0E+00	AI587308.1	EST_HUMAN	tq4f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN I (HUMAN);
205	15537	25659	9.26	0.0E+00	AI587308.1	EST_HUMAN	tq4f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN I (HUMAN);
207	13019	25661	3.08	0.0E+00	AF160908.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
209	13021	25662	23.37	0.0E+00	4508632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
210	13022	25664	4.72	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
214	13026	25664	9.19	0.0E+00	AB016294.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
215	13026	25664	8.34	0.0E+00	AB016294.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13027	25665	3.9	0.0E+00	6878444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tesp), mRNA
229	13041	25678	1.23	0.0E+00	AB016301.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
229	13041	25679	1.23	0.0E+00	AB016301.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
231	13042	25682	3.97	0.0E+00	6453908	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
233	13044	25688	0.84	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13049	25688	3.85	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
242	13051	25691	1.71	0.0E+00	X68772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
250	13059	25691	9.14	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
263	13071	25710	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA

Page 471 of 536

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
263	13071	25711	1.88	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
265	13073	25713	3.07	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
276	13083	25728	1.19	0.0E+00	D83327.1	NT	Homo sapiens DCR1 mRNA, partial cds
277	13084	25728	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCR1 mRNA, partial cds
277	13084	25727	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCR1 mRNA, partial cds
278	13085	25734	0.78	0.0E+00	AW845233.1	EST_HUMAN	IL2-CT0031-181100-020-503 CT0031 Homo sapiens cDNA
287	13088	25734	6.85	0.0E+00	4507029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13088	25735	6.85	0.0E+00	4507029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
297	13103	25744	4.97	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
298	13104	25745	4.83	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
298	13104	25745	4.83	0.0E+00	AB028942.1	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
300	13105		3.78	0.0E+00	AA480002.1	EST_HUMAN	zr18c08.r1 Source: NIH/MPu, ST Homo sapiens cDNA clone IMAGE:763684 6'
301	13106	25746	18.83	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
302	13106	25746	16.53	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
306	13110	25750	2.33	0.0E+00	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
319	13122	25759	4.97	0.0E+00	7857213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
320	13122	25759	6.23	0.0E+00	7857213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
335	13138	25771	2.88	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (vltorex) (Drosophila) homolog; translocated to, 4 (MLLT4) mRNA
338	13139	25775	1.71	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
341	13142	25780	1.45	0.0E+00	U71800.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
346	13146	25784	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25785	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
347	13147	25786	3.84	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
349	13148	25788	2.33	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
352	13151	25792	0.94	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
353	13152	25793	4.1	0.0E+00	D80008.1	NT	Human mRNA for KIAA0184 gene, partial cds
354	13152	25793	1.9	0.0E+00	D80008.1	NT	Human mRNA for KIAA0184 gene, partial cds
356	13154	25795	1.86	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
367	13163	25806	1.07	0.0E+00	AU134683.1	EST_HUMAN	AU134683 PLACE1 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:54199
378	13203	25849	8.31	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
379	13204	25850	1.54	0.0E+00	A1963014.1	EST_HUMAN	q941105.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:54199
383	13170	25813	1.83	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN); RC2-CT0320-300100-016-409 CT0320 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
396	13172	25816	1.58	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
397	13173	25817	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
398	13174	25818	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
399	13175	25819	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
400	13176	25820	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
401	13177	25821	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
402	13178	25822	2.77	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
403	13179	25823	0.84	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
404	13180	25824	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
405	13181	25825	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
406	13182	25826	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
407	13183	25827	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
408	13184	25828	28.13	0.0E+00	4503680	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
409	13185	25829	1.5	0.0E+00	R17795.1	EST_HUMAN	y090802.1 Scores Infant brain 11N18 Homo sapiens cDNA clone IMAGE:31682.5
410	13186	25830	1.31	0.0E+00	4503614	NT	Homo sapiens phosphoribosylpyrimidine formyltransferase, phosphoribosylglycylamide synthetase, phosphoribosylmethanimidazole synthetase (GAR1) mRNA
411	13187	25831	3.18	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S6 (RPS6) mRNA
412	13188	25832	3.93	0.0E+00	AB028842.1	NT	Homo sapiens mRNA for KIAA1010 protein, partial cds
413	13189	25833	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
414	13190	25834	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
415	13191	25835	4.02	0.0E+00	AF193007.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
416	13192	25836	1.59	0.0E+00	4557878	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
417	13193	25837	2.01	0.0E+00	AA324262.1	EST_HUMAN	EST:27064 Carcibulum II Homo sapiens cDNA 5' end
418	13194	25838	0.97	0.0E+00	BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3362348.5
419	13195	25839	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
420	13196	25840	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
421	13197	25841	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
422	13198	25842	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
423	13199	25843	2.64	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
424	13200	25844	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
425	13201	25845	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
426	13202	25846	3.46	0.0E+00	AB033036.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
427	13203	25847	25002	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4-4000837.5
428	13204	25848	1.97	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4-4000837.5
429	13205	25849	2.66	0.0E+00	BE385144.1	EST_HUMAN	801274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615766.5

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
482	13543	25911	1.11	0.0E+00	AW938825.1	EST_HUMAN	PMO-DT0065-130400-002-c08 DT0065 Homo sapiens cDNA
483	13544	25912	1.33	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
484	13278	25913	1.33	0.0E+00	AL117233.1	NT	Homo sapiens PC328 protein (PC328) mRNA
485	13279	25914	1.27	0.0E+00	BE239856	NT	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
486	13283	25924	0.77	0.0E+00	BE373403.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
489	13283	25924	0.37	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
498	13290	25924	0.37	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0035-160400-142-145 BT0035 Homo sapiens cDNA
513	13544	25928	1.29	0.0E+00	BE081527.1	EST_HUMAN	6017848598-1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:388698 5'
518	13302	25934	1.14	0.0E+00	BF028003.1	EST_HUMAN	Homo sapiens mRNA for KIAA1476 protein, partial cds
624	13308	25941	1.08	0.0E+00	AB040909.1	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCEB1L) mRNA
627	13311	25944	27.68	0.0E+00	8006030	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
628	13312	25945	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
628	13312	25946	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
630	13314	25948	0.97	0.0E+00	8823831	NT	Homo sapiens anillin (LOC54443), mRNA
630	13314	25948	0.97	0.0E+00	8823831	NT	Homo sapiens anillin (LOC54443), mRNA
635	13318		5.82	0.0E+00	AF0038528.1	NT	Homo sapiens X-linked arylidate ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
543	13326	25958	1.89	0.0E+00	AW135324.1	EST_HUMAN	UHH-B11-ach-h-04-00-J1.1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713861 3'
553	13336		8	0.0E+00	D10063.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
						NT	Homo sapiens ubiquitin-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQORF51), nuclear gene
						NT	encoding mitochondrial protein, mRNA
572	13353	25982	2.63	0.0E+00	5174742	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
585	13365		7	0.0E+00	U04093.1	NT	60182627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
588	13368	25996	1.83	0.0E+00	BF104898.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25998	0.98	0.0E+00	8823831	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25999	0.98	0.0E+00	8823831	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
596	13373	26002	0.76	0.0E+00	4501854	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26008	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26009	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26018	3.18	0.0E+00	AF149773.1	NT	Homo sapiens NOT1 protein (NOT1) gene, exons 1, 2, and 3
606	13387	26018	3.18	0.0E+00	8808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
612	13390	26021	1.2	0.0E+00	8808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26022	3.83	0.0E+00	8808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26023	3.83	0.0E+00	8808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26024	0.92	0.0E+00	8808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26025	0.92	0.0E+00	8808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
620	13396	26034	1.36	0.0E+00	AA339486.1	EST_HUMAN	z86c07.r1 Soares, Jeffs, NHT Homo sapiens cDNA clone IMAGE:728732 5'
624	13403	26038	10.1	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element

Page 474 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
628	13407	20041	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.11 Soares, fetal_liver, spleen, 1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
628	13407	20042	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.11 Soares, fetal_liver, spleen, 1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
631	13410		4.99	0.0E+00	4885528	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
638	13417	20054	2.88	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
640	13419	20057	1.17	0.0E+00	6031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
643	13422	20091	2.53	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
647	13426	20094	1.07	0.0E+00	AF106398.1	NT	Homo sapiens sodium/calcium exchanger isoform NCX3 (NCX1) mRNA, complete cds
647	13426	20066	1.07	0.0E+00	AF106398.1	NT	Homo sapiens sodium/calcium exchanger isoform NCX3 (NCX1) mRNA, complete cds
653	13431	20070	4.98	0.0E+00	4820947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
653	13431	20071	4.98	0.0E+00	4820947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
659	13547		1.16	0.0E+00	X67147.1	NT	Human endogenous retrovirus pHE1 (ERV9)
667	13443	20084	10.4	0.0E+00	4904424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	13448	20088	4.49	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
681	13456	20101	2.43	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
693	13468	20115	9.24	0.0E+00	AA614537.1	EST_HUMAN	np49d01.s1 NCI CGAP_B1.1 Homo sapiens cDNA clone IMAGE:1129833 3' similar to gb:X57332
696	13471	20119	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
698	13471	20120	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
709	13481	20129	1.71	0.0E+00	6032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	13486	20135	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
712	13486	20136	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	13488	20139	12.28	0.0E+00	11549800	NT	Homo sapiens hypodermal protein FLJ21634 (FLJ21634), mRNA
719	13468	20146	2.12	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	13512	20170	1.07	0.0E+00	AF226980.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
739	13512	20171	1.07	0.0E+00	AF226980.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	13513	20172	2.41	0.0E+00	AF170462.1	NT	Homo sapiens chloride channel CLCA3 (CLCA3) mRNA, complete cds
743	13516	20175	1.07	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
743	13516	20176	1.07	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
748	13519	20177	1.38	0.0E+00	6912749	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
748	13521	20179	1.96	0.0E+00	D30612.1	NT	Homo sapiens mRNA for repressor protein, partial cds
749	13521	20180	3.01	0.0E+00	BE680735.1	EST_HUMAN	60144564/F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

Page 475 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
752	13524	26183	3.51	0.0E+00	R48915.1	EST_HUMAN	yf89g08.1 Soares breast 2NH-1Bst Homo sapiens cDNA clone IMAGE:154046 5'
753	13525	26184	2.4	0.0E+00	5032085	NT	Homo sapiens splicing factor 3a, subunit 1, 120KD (SF3A1), mRNA
761	13533	26182	2.07	0.0E+00	AB011398.1	NT	Homo sapiens gene for AF-5, complete cds
764	13537	26186	2.34	0.0E+00	7861985	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	13547	26208	1.18	0.0E+00	D60006.1	NT	Human mRNA for KIAA0184 gene, partial cds
775	13547	26209	1.18	0.0E+00	D60006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	13552	26213	2.13	0.0E+00	X89772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
784	13556	26217	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0810 protein, partial cds
784	13556	26218	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0810 protein, partial cds
788	13560	26222	9.88	0.0E+00	6174478	NT	Homo sapiens perlecan (PCNT) mRNA
789	13561		11.83	0.0E+00	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
805	13577	26242	1.96	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
806	13578	26243	4.28	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13580	26246	2.81	0.0E+00	4557680	NT	Homo sapiens potassium voltage-gated channel, leak-related family, member 1 (KCNE1) mRNA
814	13585	26251	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
814	13585	26252	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
819	13590	26257	1.86	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
823	13593	26262	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
823	13593	26263	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
830	13600		1.32	0.0E+00	AF027133.1	NT	Homo sapiens sodium/myo-insulin cotransporter (SLC5A3) gene, complete cds
834	13604	26274	4.82	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
834	13604	26275	4.82	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
835	13605	26276	9.86	0.0E+00	4507192	NT	Homo sapiens SON DNA binding protein (SON) mRNA
836	13606	26277	4.34	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
837	13607	26278	0.8	0.0E+00	4508728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
841	13611	26281	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0810 protein, partial cds
841	13611	26282	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0810 protein, partial cds
842	13612	26283	2.46	0.0E+00	AA633272.1	EST_HUMAN	qf8607.1 NCI CGAP P10 Homo sapiens cDNA clone IMAGE:397453
842	13612	26284	2.45	0.0E+00	AA633272.1	EST_HUMAN	qf8607.1 NCI CGAP P10 Homo sapiens cDNA clone IMAGE:397453
843	13613		9.44	0.0E+00	BF077894.1	EST_HUMAN	00205579F1 NIH JMG 83 Homo sapiens cDNA clone IMAGE:4249915 5'
847	13617	26285	1.94	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
847	13617	26286	1.94	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26287	3.31	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26288	3.31	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
871	13640	26311	0.91	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21G003
878	13647	26316	2.57	0.0E+00	BE08692.1	EST_HUMAN	QV0-BT0703-280400-211-111 BT0703 Homo sapiens cDNA
878	13647	26317	2.57	0.0E+00	BE08692.1	EST_HUMAN	QV0-BT0703-280400-211-111 BT0703 Homo sapiens cDNA
888	13657	26326	0.48	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21G003
888	13666		4.00	0.0E+00	4504658	NT	Homo sapiens laminin receptor 1 (LRK, ribosomal protein SA) (LAMR1), mRNA
900	13668		8.49	0.0E+00	4504658	NT	Homo sapiens laminin receptor 1 (LRK, ribosomal protein SA) (LAMR1), mRNA
901	13668	26332	1.21	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antitrypsin precursor, mRNA, partial cds
902	13668	26333	1.78	0.0E+00	Z28101.1	NT	Homo sapiens kallistatin (P4) gene, exons 1-4, complete cds
905	13672	26336	1.05	0.0E+00	Z28101.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
905	13672	26337	1.05	0.0E+00	Z28101.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13683	26356	2.08	0.0E+00	AB022311.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
926	13683	26357	2.08	0.0E+00	AB022311.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
931	13688	26362	1.19	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' and
932	13688	26363	0.95	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' and
933	13700	26364	0.9	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' and
934	13701	26365	2.18	0.0E+00	4507430	NT	Homo sapiens thyroidic embryonic factor (TEF), mRNA
934	13701	26366	2.18	0.0E+00	4507430	NT	Homo sapiens thyroidic embryonic factor (TEF), mRNA
942	15558	26373	3.38	0.0E+00	A001848.1	EST_HUMAN	ce88903.1 NC_CGAP_G03 Homo sapiens cDNA clone IMAGE1813404.3'
942	15558	26374	3.38	0.0E+00	A001848.1	EST_HUMAN	ce88903.1 NC_CGAP_G03 Homo sapiens cDNA clone IMAGE1813404.3'
943	13709	26375	9.49	0.0E+00	7657268	NT	Homo sapiens KIAA0829 protein Mac2 interacting nuclear target (MINT) homolog (KIAA0829), mRNA
954	13710	26385	3.18	0.0E+00	AB030506.1	NT	Homo sapiens mRNA for PSP24, complete cds
962	13727	26391	1.11	0.0E+00	BF368974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
962	13727	26392	1.11	0.0E+00	BF368974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
962	13727	26393	1.11	0.0E+00	BF368974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
963	13728	26394	1.89	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
963	13728	26395	1.89	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
972	13737	26402	2.03	0.0E+00	4757908	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL), mRNA
984	13748	26410	1.06	0.0E+00	U83698.1	NT	Human beta-tubulin (TUB4a) gene, complete cds
985	13749	26411	50.9	0.0E+00	U83698.1	NT	Human beta-tubulin (TUB4a) gene, complete cds
988	13749	26411	26.17	0.0E+00	U83698.1	NT	Human beta-tubulin (TUB4a) gene, complete cds
989	13752		5.62	0.0E+00	AF188460.1	NT	Homo sapiens Bq22.1 region and MTGS (CBFA2T1) gene, partial cds
989	13752		5.62	0.0E+00	AF188460.1	NT	Homo sapiens Bq22.1 region and MTGS (CBFA2T1) gene, partial cds
993	13755	26416	1.17	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene

Page 477 of 536
Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
984	13755	28418	1.83	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
985	13755	28418	2.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
986	13755	28417	3.78	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
989	13759	28420	3.06	0.0E+00	7001068	NT	Homo sapiens DKK2P568M122 protein (DKK2P568M122), mRNA
1003	13763	28424	2.5	0.0E+00	5903114	NT	Homo sapiens liver membrane protein, mitochondrial (MMT), mRNA
1004	13764		1.43	0.0E+00	AA458660.1	EST_HUMAN	ca8607.31 Stragene fetal retina 87202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PR39 HUMAN P47210 26S PROTEASE REGULATOR SUBUNIT 8 ; EST51024 WATM1 Homo sapiens cDNA clone 51024 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	28428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST51024 WATM1 Homo sapiens cDNA clone 51024 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	28429	1.9	0.0E+00	N43182.1	EST_HUMAN	(alignment Ser and Pro with BLASTx or p)
1010	13770		3.55	0.0E+00	5922933	NT	Homo sapiens hypothetical protein FLJ11108 (FLJ11108), mRNA
1025	13785	28445	2.49	0.0E+00	4758669	NT	Homo sapiens heat shock 70kD protein 98 (heatshock-2) (HSPA98) mRNA
1043	13802	28480	1.89	0.0E+00	4826872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1043	13802	28481	1.89	0.0E+00	4826872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1047	13806	28465	3.63	0.0E+00	8823824	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1047	13806	28465	3.63	0.0E+00	8823824	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1048	13807	28467	119.02	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8) gene
1050	13808		1.19	0.0E+00	8823827	NT	Homo sapiens hypothetical protein FLJ20690 (FLJ20690), mRNA
1052	13811	28471	5.52	0.0E+00	6174394	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1080	13818	28480	2.3	0.0E+00	4758117	EST	Homo sapiens Death associated protein 3 (DAP3) mRNA
1074	13832	28490	2.2	0.0E+00	BE005208.1	EST_HUMAN	MRD-BN0115-200300-003-008 BN0115 Homo sapiens cDNA
1087	13855	28514	6.04	0.0E+00	7708134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1087	13855	28515	6.04	0.0E+00	7708134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1087	13855	28515	6.04	0.0E+00	7708134	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
1110	13867	28526	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
1110	13867	28526	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
1111	13868	28527	4.27	0.0E+00	4609712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1113	13870	28529	0.86	0.0E+00	8623300	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1113	13870	28532	23.77	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1116	13873		44.3	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1118	13876	28533	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1119	13876	28534	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1122	13878	28537	1.1	0.0E+00	7708500	NT	Homo sapiens Npw38-binding protein Npw38 (LOC51729), mRNA
1123	13879	28538	0.87	0.0E+00	X05828.1	NT	H. sapiens ART4 gene

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1123	13879	28539	0.87	0.0E+00	X95926.1	NT	H.sapiens ART4 gene
1124	13880	28540	0.82	0.0E+00	A147690.1	EST_HUMAN	qb2210.x1 Soares pregnant uterus NH-FPU Homo sapiens cDNA clone IMAGE:16970113'
1126	13882	28542	1.86	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1133	13888	28548	0.71	0.0E+00	4759081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1133	13889	28549	0.71	0.0E+00	4759081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1134	13890	28550	1.39	0.0E+00	6069844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1145	13900	28561	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1145	13900	28561	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1149	13903	28595	1.85	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1155	13910	28574	0.76	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1167	13921	28583	4.84	0.0E+00	AF034998.1	NT	Homo sapiens amphipathin 1 mRNA, alternative splice isoform, complete cds
1187	13939		1.92	0.0E+00	7657338	NT	Homo sapiens mult. (E. coli) homolog 3 (MLH3), mRNA
1201	13953	28617	1.7	0.0E+00	8922893	NT	Homo sapiens hypothetical protein FLJ10867 (FLJ10867), mRNA
1204	13956	28620	1.83	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	28621	1.53	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1205	13957	28622	1.77	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1206	13962	28623	1.83	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1224	13974	28646	9.12	0.0E+00	AF100718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1225	13975	28647	1.71	0.0E+00	4503068	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1243	13982	28687	2.33	0.0E+00	V18000.1	NT	Homo sapiens NF2 gene
1251	14000	28687	23.99	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1258	14007	28676	3.07	0.0E+00	AF084478.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 6 (WBSOR6) mRNA, complete cds
1265	14014	28681	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1265	14014	28682	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1277	14027	28695	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfham syndrome (WFS) mRNA
1277	14027	28696	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfham syndrome (WFS) mRNA
1277	14027	28697	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfham syndrome (WFS) mRNA
1278	14028		3.78	0.0E+00	AF088168.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1288	15584	28709	1.63	0.0E+00	7657529	NT	Homo sapiens fibroblast tumor deletion region protein 1 (RTDR1), mRNA
1288	15584	28710	1.63	0.0E+00	7657529	NT	Homo sapiens fibroblast tumor deletion region protein 1 (RTDR1), mRNA
1293	14042	28715	2.03	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1294	14043	28716	0.89	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1296	14046	28717	1.12	0.0E+00	5903146	NT	Homo sapiens zinc finger protein 9 (RNF9), mRNA
1297	14046	28718	0.72	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA

Page 479 of 536
Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1298	14048	28720	4.71	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1300	14049	28721	2.04	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1301	14050	28722	5.88	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	28723	3.01	0.0E+00	8597397	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1303	14051	28724	3.01	0.0E+00	8597397	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1314	14082	28737	1.82	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1387	14134	28809	1.38	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1393	14140	28817	3.39	0.0E+00	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
1398	14143	28821	1.59	0.0E+00	AJ208796.1	EST_HUMAN	ig38600X1 Soares_beta_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP.T27A1.5 CE14213;
1397	14144	28822	13.21	0.0E+00	8042208	NT	RAN, member RAS oncogene family/Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1406	14153	28833	6	0.0E+00	4505846	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1408	14153	28834	5	0.0E+00	4505846	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1408	14155	28837	4.08	0.0E+00	7705885	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1408	14155	28838	4.08	0.0E+00	7705885	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1410	14157	28839	4.59	0.0E+00	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1420	14158	28852	3.02	0.0E+00	AF038280.1	NT	Homo sapiens alpha-20 coxytransferase (alpha-20-uct) gene, exon 7
1431	14178	28863	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1431	14178	28864	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1436	14183	28868	17.53	0.0E+00	U35637.1	NT	Human tubulin mRNA, partial cds
1436	14183	28869	17.93	0.0E+00	U35637.1	NT	Human tubulin mRNA, partial cds
1448	14188	28876	2.59	0.0E+00	AL132996.1	NT	Novel human gene on chromosome 20
1447	14194	28877	1.82	0.0E+00	AL137784.1	NT	Novel human gene mapping to chromosome 1
1451	14198	28882	1.73	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1454	14201	28885	4.63	0.0E+00	5912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1458	14203	28887	1.55	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1458	14203	28888	1.55	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1460	14207	28893	0.97	0.0E+00	M60675.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1460	14207	28894	0.97	0.0E+00	M60675.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1500	14246	28932	1.37	0.0E+00	7708434	NT	Homo sapiens HDGF for homolog of Drosophila headless (LOC51688), mRNA
1516	14283	28949	1.21	0.0E+00	AW69987.1	EST_HUMAN	EST371757 MAGS neosequences, MAGF Homo sapiens cDNA
1517	14284	28950	1.76	0.0E+00	AA481172.1	EST_HUMAN	es34403.1 NCI CGAP_G031 Homo sapiens cDNA clone IMAGE:815110 5'
1522	14299	28953	49.82	0.0E+00	AF022880.1	NT	Carotiphectes aethiops cyclophilin A mRNA, complete cds

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1522	14268	26864	49.82	0.0E+00	AF023860.1	NT	Carotidophorus antihepatic cyclophilin A mRNA, complete cds
1524	14271	26867	1.24	0.0E+00	AF076087.1	EST_HUMAN	EST388208 IMAGE resequences, MAGN Homo sapiens cDNA
1524	14271	26868	1.24	0.0E+00	AF076087.1	EST_HUMAN	EST388208 IMAGE resequences, MAGN Homo sapiens cDNA
1525	14272	26869	5.49	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalin
1527	14274		2.07	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44), and F1P3 (F1P3) genes, complete cds
1528	14275	26882	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1528	14275	26883	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14277	26885	3.3	0.0E+00	7682405	NT	Homo sapiens KIAA0687 protein (KIAA0687), mRNA
1531	14278	26871	7.29	0.0E+00	7656872	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1537	14284	26871	1.84	0.0E+00	M68478.1	NT	Human transglutaminase mRNA, complete cds
1540	14287	26873	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1540	14287	26874	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	15572		11.72	0.0E+00	4506954	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1542	14288	26875	11.72	0.0E+00	M14186.1	NT	Human laminin receptor (ZHS epitope) mRNA, 5' and
1553	14300	26886	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1553	14300	26886	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1555	14302	26890	11.7	0.0E+00	4503088	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1563	14310		1.21	0.0E+00	D00333.1	NT	human c-yes-2 gene
1574	14321	27007	1.65	0.0E+00	Z63738.1	NT	H. sapiens H2B/e gene
1575	14322	27008	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1575	14322	27009	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27010	11.19	0.0E+00	AV680831.1	EST_HUMAN	AV680831 GK Homo sapiens cDNA clone GKCB0F02 5'
1576	14323	27011	11.18	0.0E+00	AV680831.1	EST_HUMAN	AV680831 GK Homo sapiens cDNA clone GKCB0F02 5'
1579	15578	27014	9.86	0.0E+00	AB040805.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1583	14329	27015	1.83	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1585	14331	27016	9.78	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1585	14331	27019	9.78	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27020	42.76	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSPA10), mRNA
1587	14333	27021	42.76	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSPA10), mRNA
1589	14335	27023	7.94	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1604	14360	27039	5.65	0.0E+00	H26873.1	EST_HUMAN	yo76c05.s1 Soares adult brain N23-H19557 Homo sapiens cDNA clone IMAGE:183848 3'
1614	14361	27051	2	0.0E+00	AB046828.1	NT	Homo sapiens mRNA for KIAA1909 protein, partial cds
1614	14361	27052	2	0.0E+00	AB046828.1	NT	Homo sapiens mRNA for KIAA1909 protein, partial cds

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1659	14405	27095	1.25	0.0E+00	BE144384.1	EST_HUMAN	MRQ-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1659	14405	27096	1.26	0.0E+00	BE144384.1	EST_HUMAN	MRQ-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1663	14409	27100	1.68	0.0E+00	AI768104.1	EST_HUMAN	yg81607.x1 Scores_NSF_F9_0W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR-Q62788 Q62788 CYSHHS2 ZINC FINGER PROTEIN ;
1664	14410	27101	1.2	0.0E+00	4758513	NT	Homo sapiens hematoxylin-derived zinc finger protein (HD-ZNF1) mRNA
1665	14411	27102	2.81	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1668	14414	27108	1.78	0.0E+00	M29880.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1668	14414	27107	1.78	0.0E+00	M29880.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1671	14416	27109	1.35	0.0E+00	4557867	NT	Homo sapiens keratin 18 (KRT18) mRNA
1672	14417	27110	1.5	0.0E+00	7057066	NT	Homo sapiens v-avl erythroblast virus E28 oncogene related (ERG) mRNA
1675	14420	27113	1.12	0.0E+00	BE222374.1	EST_HUMAN	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1675	14420	27114	1.12	0.0E+00	BE222374.1	EST_HUMAN	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1677	14421	27115	3.24	0.0E+00	4557610	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27119	3.18	0.0E+00	H30132.1	EST_HUMAN	gamma-Glutamyl transpeptidase 8 precursor (HUMAN);
1680	14424	27120	3.18	0.0E+00	H30132.1	EST_HUMAN	gamma-Glutamyl transpeptidase 8 precursor (HUMAN);
1682	14426	27122	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1682	14426	27123	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1685	14429	27133	13.71	0.0E+00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMGI7) mRNA
1688	14437	27136	1.11	0.0E+00	AF169683.1	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1695	14438	27136	3.53	0.0E+00	8623841	NT	Homo sapiens FOXJ2 forkhead factor (LOC55810) mRNA
1702	14445	27145	1.11	0.0E+00	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMYA1) mRNA
1708	14461	27162	4.08	0.0E+00	AB028542.1	NT	Homo sapiens WAVES mRNA for WASP-family protein, complete cds
1710	14453	27167	2.19	0.0E+00	594400.1	NT	TCF zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1725	15577	27167	1.16	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2) mRNA
1739	14481	27181	1.93	0.0E+00	AF273841.1	NT	Homo sapiens SMGY (SMGY) gene, complete cds
1778	15578	27228	3.37	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1782	14523	27228	3.37	0.0E+00	4507850	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1782	14523	27229	3.37	0.0E+00	4507850	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1784	14526	27232	1.42	0.0E+00	U63993.1	NT	Human OSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1787	14528		1.2	0.0E+00	W76571.1	EST_HUMAN	z055g08.r1 Scores_fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:345894 5'

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1798	15576	27238	2.74	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1800	14540	27261	5.68	0.0E+00	U14987.1	NT	Human ribosomal protein L21 mRNA, complete cds
1802	14542	27264	2.79	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1803	14543	27255	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (test-responsive enhancer element B87) (ATF4) mRNA
1803	14543	27268	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (test-responsive enhancer element B87) (ATF4) mRNA
1803	14543	27257	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (test-responsive enhancer element B87) (ATF4) mRNA
1812	14552	27268	1.63	0.0E+00	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1826	14565	27276	5.92	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1826	14565	27277	5.62	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1836	14576	27287	1.72	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1836	14576	27288	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1840	14578	27260	4.35	0.0E+00	4526783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1840	14578	27261	4.35	0.0E+00	4526783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1841	14578	27262	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1841	14578	27263	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1844	14582	27298	1.46	0.0E+00	AW207280.1	EST_HUMAN	UHHBIT-4H-407-Q-U1.1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27297	1.46	0.0E+00	AW207280.1	EST_HUMAN	UHHBIT-4H-407-Q-U1.1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27297	1.46	0.0E+00	BE277466.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27316	3.49	0.0E+00	BE277466.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27317	3.49	0.0E+00	BE277466.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1887	14624	27354	0.93	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-203003-012-b4 B01128 Homo sapiens cDNA
1887	14624	27354	0.93	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-203003-012-b4 B01128 Homo sapiens cDNA
1916	14653	27362	2.16	0.0E+00	4506394	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27362	2.16	0.0E+00	4506394	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27363	2.16	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1924	14681	27372	1.22	0.0E+00	M68478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1925	15582	27373	1.19	0.0E+00	M68478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1925	15582	27373	1.19	0.0E+00	M68478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1930	14686	27380	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1930	14686	27381	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1933	14698	27383	1.42	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1935	14870		4.27	0.0E+00	AF240798.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1940	14876		1.35	0.0E+00	M59632.1	NT	Human topoisomerase I pseudogene 1
1949	14884	27398	1.94	0.0E+00	4809282	NT	Homo sapiens histidine aminotransferase (HAL) mRNA
1949	14884	27397	1.94	0.0E+00	4809282	NT	Homo sapiens histidine aminotransferase (HAL) mRNA
1959	14896		1.15	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21Q352
1961	14897	27410	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1961	14897	27411	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1962	14898	27412	2.49	0.0E+00	4826938	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1962	14898	27413	2.49	0.0E+00	4826938	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1973	14709	27427	1.38	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0760 protein, partial cds
1973	14709	27428	1.38	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0760 protein, partial cds
1979	14715	27432	1.69	0.0E+00	M33782.1	NT	Human TEB protein mRNA, partial cds
1979	14715	27433	1.69	0.0E+00	M33782.1	NT	Human TEB protein mRNA, partial cds
1981	14717	27436	1.57	0.0E+00	AW193024.1	EST_HUMAN	x68501.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2678913 3'
1981	14717	27436	1.57	0.0E+00	AW193024.1	EST_HUMAN	x68501.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2678913 3'
1982	14718	27439	5.98	0.0E+00	8912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1982	14718	27439	5.98	0.0E+00	8912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1984	14720	27439	2	0.0E+00	7662066	NT	Homo sapiens KIAA0408 gene product (KIAA0408), mRNA
1985	14721	27440	1.19	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1988	14722	27441	1.58	0.0E+00	247556.1	NT	H. sapiens genes for semaphorin I and semaphorin II
1988	14722	27442	1.58	0.0E+00	247556.1	NT	H. sapiens genes for semaphorin I and semaphorin II
1988	14728	27451	3.75	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1613 protein, partial cds
2014	14749	27476	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27476	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2046	14779	27507	1.64	0.0E+00	7705742	NT	Homo sapiens TP53 G3a (TP53 G3a), mRNA
2052	14785	27511	4.13	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACEA Homo sapiens cDNA clone PLACE400321 5'
2053	14156	26837	1.55	0.0E+00	7705566	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2053	14156	26838	1.55	0.0E+00	7705566	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2058	14787	27513	2.04	0.0E+00	A4077569.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2058	14787	27513	2.04	0.0E+00	A4077569.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2057	14789		2.41	0.0E+00	7957468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2059	14791		1.91	0.0E+00	4585983	NT	Homo sapiens phosphodiesterase 8A, cGMP-specific, rod, alpha (PDE8A), mRNA
2090	14792	27517	0.97	0.0E+00	Z42936.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-0602

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2082	14784		1.78	0.0E+00	A1244247.1	EST_HUMAN	q60008.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:188887.1 3' similar to contains Alu repetitive element
2087	14789	27528	3.48	0.0E+00	BE877225.1	EST_HUMAN	801485146F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3887747 5'
2088	14801	27628	1.48	0.0E+00	BF316325.1	EST_HUMAN	80160280AF1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2089	14801	27529	1.48	0.0E+00	BF315325.1	EST_HUMAN	80160280AF1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2092	14804	27532	3.07	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-410 CT0413 Homo sapiens cDNA
2092	14804	27533	3.07	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-410 CT0413 Homo sapiens cDNA
2096	14812	27544	3.71	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (AP2B2) mRNA, complete cds
2096	14812	27545	3.71	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (AP2B2) mRNA, complete cds
2096	14812	27546	1.38	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (AP2B2) mRNA, complete cds
2107	14839		2.06	0.0E+00	4758488	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2108	14839		1.59	0.0E+00	BE767904.1	EST_HUMAN	QV1-GN0055-140800-318-c10 GN0055 Homo sapiens cDNA
2110	14841	27572	3.78	0.0E+00	AF018963.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLR51) gene, exon 6 and complete cds
2111	14841	27572	3.78	0.0E+00	BF027682.1	EST_HUMAN	801672068F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3984795 5'
2110	14842	27573	1.03	0.0E+00	BE072824.1	EST_HUMAN	PMO-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2113	14844	27574	1.06	0.0E+00	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2116	14847	27578	1.3	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT0219-271090-022-G10 CT0219 Homo sapiens cDNA
2117	14848	27577	1.47	0.0E+00	L76827.1	NT	Homo sapiens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA, complete cds
2119	14850	27570	6.39	0.0E+00	A1004840.1	EST_HUMAN	QV-BT0685-020389-082 BT0685 Homo sapiens cDNA
2119	14850	27580	6.39	0.0E+00	A1004840.1	EST_HUMAN	QV-BT0685-020389-082 BT0685 Homo sapiens cDNA
2163	14883		1.05	0.0E+00	7657252	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L) mRNA
2179	14908		1.22	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2183	14912	27644	1.05	0.0E+00	BE274686.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3349388 5'
2185	14914	27647	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBINDE08 5'
2185	14914	27648	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBINDE08 5'
2187	14916	27650	1.4	0.0E+00	AA931091.1	EST_HUMAN	cc32a01.at1 NCI_CGAP_Lu5 Homo sapiens cDNA clone CBINDE08 5'
2191	14920	27654	5.08	0.0E+00	BF344434.1	EST_HUMAN	602014828F1 NCI_CGAP_Bmd4 Homo sapiens cDNA clone IMAGE:1567889 3'
2192	14921	27655	12.14	0.0E+00	BE748890.1	EST_HUMAN	601572186T1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:4150734 5'
2198	14926	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250800-439-008 TN0141 Homo sapiens cDNA
2198	14926	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250800-439-008 TN0141 Homo sapiens cDNA
2198	14926	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250800-439-008 TN0141 Homo sapiens cDNA
2200	15588	27666	2.04	0.0E+00	BF313817.1	EST_HUMAN	601600231F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128622 5'
2203	14931	27668	1.93	0.0E+00	BE018750.1	EST_HUMAN	bb84e02.yt1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-H-RELATED PROTEIN;

Single Exon Probes Expressed in Brain

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2204	14932	27699	1.55	0.0E+00	AA042813.1	EST_HUMAN	Z653c07.s1 Soares_pregnant_fetus NIHPU Homo sapiens cDNA clone IMAGE:489540 3' similar to gb:X65957.5 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2204	14932	27670	1.55	0.0E+00	AA042813.1	EST_HUMAN	Z653c07.s1 Soares_pregnant_fetus NIHPU Homo sapiens cDNA clone IMAGE:489540 3' similar to gb:X65957.5 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2212	14940	27678	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2212	14940	27679	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2213	14941	27680	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0652 protein (KIAA0652), mRNA
2213	14941	27681	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0652 protein (KIAA0652), mRNA
2218	14946	27704	1.37	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 15
2236	14904	27709	5.71	0.0E+00	4557585	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2243	14971	27709	2.03	0.0E+00	7662401	NT	Homo sapiens KIAA0652 protein (KIAA0652), mRNA
2250	14978	27717	1.71	0.0E+00	BE895281.1	EST_HUMAN	60143525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2253	14981	27720	1.27	0.0E+00	BE905563.1	EST_HUMAN	60149320F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3597457 5'
2253	14981	27721	1.27	0.0E+00	BE905563.1	EST_HUMAN	60149320F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3597457 5'
2256	14983	27723	2.35	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2299	15024	27769	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homodig) 6 (DEF6), mRNA
2299	15024	27769	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homodig) 6 (DEF6), mRNA
2302	15025	27761	1.87	0.0E+00	AA076404.1	EST_HUMAN	cd99c07.x1 Soares_fetal_liver_spleen_TNFSF_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2302	15027	27763	2.33	0.0E+00	AA429001.1	EST_HUMAN	2778411.1 Soares_fetal_liver_N22HFB_6w Homo sapiens cDNA clone IMAGE:759740 5'
2302	15027	27764	2.33	0.0E+00	AA429001.1	EST_HUMAN	2778411.1 Soares_fetal_liver_N22HFB_6w Homo sapiens cDNA clone IMAGE:759740 5'
2304	15029	27766	1.76	0.0E+00	BF347039.1	EST_HUMAN	60202184F1 NCI CGAP Bm67 Homo sapiens cDNA clone IMAGE:4157339 5'
2308	15034	27772	1.52	0.0E+00	L02840.1	NT	Homo sapiens potassium channel K2.1 mRNA, complete cds
2310	15035	27774	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27774	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2311	15038	27776	1.39	0.0E+00	6925486	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2317	15042	27780	1.17	0.0E+00	BE678005.1	EST_HUMAN	KIAA0857 PROTEIN
2320	15045	27782	4.73	0.0E+00	AF044571.1	NT	Homo sapiens phosphotyrosine kinase alpha subunit (PHKA2) gene, exon 32
2321	15046	27783	1.9	0.0E+00	AB23542.1	EST_HUMAN	Y67088.x1 NCI CGAP U2 Homo sapiens cDNA clone IMAGE:2283182 3'
2325	15050	27785	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0652 protein (KIAA0652), mRNA
2325	15050	27785	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0652 protein (KIAA0652), mRNA
2328	15053	27789	1.65	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2328	15053	27790	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2334	15058	27793	1.24	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA

Page 486 of 536
Table 4

Single Exon Probes Expressed in Brain

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2334	15058	27784	1.24	0.0E+00	7682007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2348	15071	27807	3.2	0.0E+00	5174678	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2352	15074	27811	2.39	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2P3 Homo sapiens cDNA clone NT2P3002064 5'
2353	15076	27812	4.31	0.0E+00	BE794026.1	EST_HUMAN	60158843F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3941003 5'
2354	15076	27812	1.51	0.0E+00	AW867076.1	EST_HUMAN	MR1-SN0033-12000-002-004 SN0033 Homo sapiens cDNA
2355	15077	27813	2.98	0.0E+00	7682017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2358	15078	27815	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2357	15079		5.25	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2359	15081	27817	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2360	15081	27818	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2361	15081	27819	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2362	15082	27820	0.98	0.0E+00	8922080	NT	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2377	15099		0.91	0.0E+00	BE814424.1	EST_HUMAN	MRD-BN0070-060800-028-d12 BN0070 Homo sapiens cDNA
2415	15136	27872	1.06	0.0E+00	AU116982.1	EST_HUMAN	AU116982 HEMBA1 Homo sapiens cDNA clone HEMBA1008155 5'
2416	15137		3.74	0.0E+00	AJ042035.1	EST_HUMAN	ad0002.x1 Source_NHMP-1 Homo sapiens cDNA clone IMAGE:1660883 3' similar to TR:008862
2417	15138	27873	0.98	0.0E+00	8922080	NT	008862 230KDA PHOSPHATIDYLINOSITOL 4-KINASE
2420	15141		4.44	0.0E+00	BE869005.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20933 (FLJ20933), mRNA
2424	15145	27878	1	0.0E+00	BE837632.1	EST_HUMAN	601432008F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918108 5'
2433	15154		0.98	0.0E+00	AB006922.1	EST_HUMAN	MR1-TN0021-280800-001-H05 TN0021 Homo sapiens cDNA
2437	15157	27882	4.5	0.0E+00	8008002	NT	AB005622 Hela cDNA (T Name) Homo sapiens cDNA similar to adenylylase kinase isozyme 2
2441	15160	27883	2.09	0.0E+00	D86006.1	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2442	15160	27883	2.09	0.0E+00	D86006.1	NT	Homo sapiens gene for cholesteryltransferin type-A receptor, complete cds
2448	15168	27900	1.91	0.0E+00	AF106276.1	NT	Homo sapiens immunoglobulin-like transcript to variant 4 (ILT4) gene, exon 6
2454	15172	27911	1.22	0.0E+00	BF345274.1	EST_HUMAN	302018068F1 NC1 CGAP Brn87 Homo sapiens cDNA clone IMAGE:4153670 5'
2461	15179	27919	4.45	0.0E+00	5729777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2465	15183	27922	1.24	0.0E+00	BE581003.1	EST_HUMAN	CA0-MT0033-150800-428-H11 MT0033 Homo sapiens cDNA
2465	15183	27922	1.24	0.0E+00	BE581003.1	EST_HUMAN	CA0-MT0033-150800-428-H11 MT0033 Homo sapiens cDNA
2470	15186	27927	0.93	0.0E+00	U13698.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2470	15186	27928	0.93	0.0E+00	U13698.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.98	0.0E+00	BF568144.1	EST_HUMAN	602164581F1 NIH_MGC 42 Homo sapiens cDNA clone IMAGE:4300383 3'

Single Exon Probes Expressed in Brain

487/536

Table 4

Single Exon Probes Expressed in Brain

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2618	15328	28072	2.08	0.0E+00	AI571737.1	EST_HUMAN	h196083X1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gbl.20877 CALCULUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN); Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 28kD (TAF21) mRNA
2619	15330	28073	2.19	0.0E+00	6032150	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2621	15333	28077	4.95	0.0E+00	AB037869.1	NT	601580108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28078	1.02	0.0E+00	BE795445.1	EST_HUMAN	601580108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28079	1.02	0.0E+00	BE795445.1	EST_HUMAN	60114372F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3951388 5'
2625	15337	28080	2.95	0.0E+00	BE263328.1	EST_HUMAN	601584630F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:395222 5'
2632	15344	28096	4.92	0.0E+00	BE792472.1	EST_HUMAN	Homo sapiens IMP (invariant monophosphate) dehydrogenase 1 (IMPDH1) mRNA Homo sapiens Bruckner's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P3 (F1P3) genes, complete cds
2651	15361		1.27	0.0E+00	U76027.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2652	15362	28103	6.55	0.0E+00	AF173227.1	NT	AUT33385 NT2RP4 Homo sapiens cDNA clone NT2RP4001064 5'
2658	15368	28108	1.22	0.0E+00	AU133385.1	EST_HUMAN	Human bulbar pemphigoid antigen (BPAG1) mRNA, complete cds
2659	15369	28107	1.08	0.0E+00	U69225.1	NT	AUT30403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28109	2.22	0.0E+00	AU130403.1	EST_HUMAN	AUT30403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28110	2.22	0.0E+00	AU130403.1	EST_HUMAN	RG1-OT0088-220300-011-407 OT0088 Homo sapiens cDNA
2663	15373	28112	1.71	0.0E+00	AW887015.1	EST_HUMAN	7H1805X1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3318088 3'
2668	15376	28115	1.26	0.0E+00	BF000018.1	EST_HUMAN	601298774F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3828923 5'
2687	15377	28116	4.37	0.0E+00	BE383105.1	EST_HUMAN	601278373F1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:3810267 5'
2688	15378		2.57	0.0E+00	BE531293.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to ribosomal protein L29
2726	15432		4.21	0.0E+00	AA318723.1	EST_HUMAN	601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943581 5'
2729	15433	28169	5.57	0.0E+00	BE794884.1	EST_HUMAN	Human beta-prime-elastin (BAM22) gene, exon 5
2732	15439	28177	3.83	0.0E+00	U36293.1	NT	Homo sapiens neuregulin 1 (NRG1), transcript variant SMDP, mRNA
2733	15440	28178	1.33	0.0E+00	7699517	NT	Homo sapiens skeletal muscle LIM-protein 1 (HLM1) gene, complete cds
2734	15441	28179	1.78	0.0E+00	AF110783.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2735	15443	28181	1.27	0.0E+00	AB051828.1	EST_HUMAN	601581961F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
2742	15448	28187	7.77	0.0E+00	BE786376.1	EST_HUMAN	601335458F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3885654 5'
2745	15454	28191	3.48	0.0E+00	BE563433.1	EST_HUMAN	AV721947 HTB Homo sapiens cDNA clone HTBBYED9 5'
2746	15451		1.16	0.0E+00	AV721647.1	EST_HUMAN	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2748	15453	28194	2.25	0.0E+00	6174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2748	15463	28195	2.25	0.0E+00	6174486	NT	Homo sapiens hypothalamic protein FLJ20477 (FLJ20477), mRNA
2749	15454	28196	1.21	0.0E+00	8623441	NT	

Page 489 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2749	15454	28197	1.21	0.0E+00	8823441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2750	15455	28198	2.5	0.0E+00	AF280193.1	NT	Homo sapiens hypoxanthine-related calcium-regulated gene mRNA, complete cds
2751	15456		13.89	0.0E+00	AV651068.1	EST_HUMAN	AV651068 GLC Homo sapiens cDNA clone GLCQD07 3'
2752	15457	28199	3.13	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2753	15457	28200	3.13	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2756	15461	28203	33.8	0.0E+00	4757983	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (GDR1) mRNA
2758	15461	28204	33.8	0.0E+00	4757983	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (GDR1) mRNA
2760	15465	28209	2.58	0.0E+00	BE747183.1	EST_HUMAN	601550503F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3829472 5'
2771	15476		1.15	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2772	15477	28210	3.38	0.0E+00	BF614110.1	EST_HUMAN	UIH-BW1-arnw-e-07-U1a1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'
2778	15483		0.99	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2784	15488	28227	2.1	0.0E+00	7705275	NT	Homo sapiens angiodiath-3 (ANG-3), mRNA
2785	15490	28228	4.67	0.0E+00	BF777684.1	EST_HUMAN	602085578F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248915 5'
2791	15496	28237	1.75	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2794	15499	28238	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCGA03 5'
2794	15499	28240	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCGA03 5'
2798	15501		7.61	0.0E+00	AB79163.1	EST_HUMAN	af55604.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518693 5' similar to SW-RT3A, HUMAN P-4039 6S RIBOSOMAL PROTEIN L13A;
2798	15504	28245	5.41	0.0E+00	BF530061.1	EST_HUMAN	602071957F1 NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4214879 5'
2800	15505	28246	5.55	0.0E+00	BE872768.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854642 5'
2802	15507	28247	1.8	0.0E+00	AU131404.1	EST_HUMAN	AU131404 NT2RP3 Homo sapiens cDNA clone NT2RP3002872 5'
2802	15507	28248	1.8	0.0E+00	AU131404.1	EST_HUMAN	AU131404 NT2RP3 Homo sapiens cDNA clone NT2RP3002872 5'
2803	15508	28249	20.25	0.0E+00	BE300344.1	EST_HUMAN	600844794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2808008 5'
2803	15508	28250	20.25	0.0E+00	BE300344.1	EST_HUMAN	600844794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2808008 5'
2809	129895	28264	4.22	0.0E+00	576830.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2812	15515		4.35	0.0E+00	AB033281.1	NT	Homo sapiens BTRP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2818	13491	28144	8.39	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2818	13491	28145	8.39	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	28436	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glucosoma 3, primary infantile) (CYP1B1) mRNA
2822	13776	28437	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glucosoma 3, primary infantile) (CYP1B1) mRNA
2840	15608	28258	3.52	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene

Page 490 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2841	15609		1.34	0.0E+00	AF08824.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2843	15611		1.22	0.0E+00	AB040080.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2849	15617	28263	2.81	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2852	15620	28266	2.83	0.0E+00	M01803.1	NT	Homo sapiens sodium channel mRNA
2854	15622	28267	1.94	0.0E+00	M00802.1	NT	Human AHNK nucleoprotein mRNA, 5' end
2857	15625	28268	1.29	0.0E+00	BE154904.1	EST_HUMAN	PMO-HT0343-281299-003-402 HT0343 Homo sapiens cDNA
2857	15625	28270	1.29	0.0E+00	BE154904.1	EST_HUMAN	PMO-HT0343-281299-003-402 HT0343 Homo sapiens cDNA
2859	15627		1.18	0.0E+00	X73428.1	NT	H.sapiens l33 gene for HLH type transcription factor
2860	15628		2.59	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
2861	15629	28272	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28273	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28274	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2868	15633	28277	18.48	0.0E+00	D50957.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2869	15633	28278	18.48	0.0E+00	D50957.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2869	15636	28281	1.09	0.0E+00	AL098557.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2870	15637		7.2	0.0E+00	Y10658.1	NT	H.sapiens mRNA for nuclear DNA helicase II
2871	15638		1.42	0.0E+00	AF152303.1	NT	Homo sapiens proteasome alpha C1 (PODH alpha-C1) mRNA, complete cds
2872	15639	28282	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2872	15639	28283	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28292	2.35	0.0E+00	4507280	NT	Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2885	15652	28296	1.00	0.0E+00	AL047586.1	EST_HUMAN	DKFZ556G0621 J1 588 (synonym: huf1) Homo sapiens cDNA clone DKFZ556G0621
2888	15653	28297	0.97	0.0E+00	7861883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2888	15653	28298	0.97	0.0E+00	7861883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2887	15654		2.96	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2890	15657	28300	5.46	0.0E+00	BE081898.1	EST_HUMAN	QV2-BT0636-130400-138-103 BT0636 Homo sapiens cDNA
2890	15657	28301	5.46	0.0E+00	BE081898.1	EST_HUMAN	QV2-BT0636-130400-138-103 BT0636 Homo sapiens cDNA
2897	15664	28312	2.09	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
2897	15664	28313	2.09	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
2905	15671		4.18	0.0E+00	Y18210.1	NT	Homo sapiens H-b5 gene for hair keratin, exon 1 to 9
2907	15673	28321	1.33	0.0E+00	4788279	NT	Homo sapiens EphA4 (EPHA4) mRNA
2908	15674	28322	20.94	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2909	15675	28323	1.81	0.0E+00	AI661002.1	EST_HUMAN	U18407.x1 NC1 CGAP Brn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR-O18247

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2008	15675	28324	1.91	0.0E+00	AI561002.1	EST_HUMAN	IN18007.X1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167061 3' similar to TR:010247
2011	15677	28326	1.83	0.0E+00	P62740	SWISSPROT	O18247 F44E7.2 PROTEIN ;
2012	15678	28327	2.01	0.0E+00	AF152338.1	NT	ZINC FINGER PROTEIN 132
2026	15694	28339	1.92	0.0E+00	AB033063.1	NT	Homo sapiens proteasome activator gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2028	15694	28340	1.92	0.0E+00	AB033063.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2029	15695	28341	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2032	15698	28342	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2032	15698	28345	3.58	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2032	15698	28346	3.58	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2033	15699	28347	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) homolog; translocated to, 4 (MLLT4) mRNA
2033	15699	28348	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) homolog; translocated to, 4 (MLLT4) mRNA
2038	15703	28352	1.16	0.0E+00	BF110702.1	EST_HUMAN	744003.X1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
2038	15703	28353	1.16	0.0E+00	BF110702.1	EST_HUMAN	Q9VLN1 CG17263 PROTEIN ;
2046	15712	28364	2.15	0.0E+00	4505084	NT	Q9VLN1 CG17263 PROTEIN ;
2046	15712	28365	2.15	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2053	15719	28370	1.69	0.0E+00	4758827	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2054	15720	28371	0.98	0.0E+00	X08404.1	NT	Homo sapiens neuron III (NRXN3) mRNA
2057	15723	28379	2.38	0.0E+00	AB033034.1	NT	H sapiens mRNA for M phase phosphoprotein 10
2058	15724	28374	5.86	0.0E+00	X15309.1	NT	H sapiens mRNA for KIAA1208 protein, partial cds
2058	15724	28375	5.86	0.0E+00	X15309.1	NT	H sapiens NF-H gene, exon 4
2059	15725	28376	7.84	0.0E+00	AF106275.1	NT	H sapiens NF-H gene, exon 4
2073	15739	28378	1.13	0.0E+00	AI148890.1	EST_HUMAN	H sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2080	15740	28394	1.12	0.0E+00	4506118	NT	qf43092.X1 Splice, testis NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2081	15747	28395	2.86	0.0E+00	AB004884.1	NT	Homo sapiens proapoptotic homobox 1 (PROX1) mRNA
2081	15747	28404	1.52	0.0E+00	7662273	NT	Homo sapiens mRNA for PKU-alpha, partial cds
2083	15759	28405	3.76	0.0E+00	5729755	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
2083	15759	28407	3.76	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2087	15763	28412	1.1	0.0E+00	AB037852.1	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3025	15791	28439	1.17	0.0E+00	N74089.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
3025	15791	28439	1.17	0.0E+00	N74089.1	NT	Human displacement protein (CCAA1) mRNA

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Single Exon Probes Expressed in Brain

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3033	15796	28445	0.71	0.0E+00	4506882	NT	Homo sapiens semogelin 1 (SEMGL1) mRNA
3039	15805		4.62	0.0E+00	AF198953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3042	15808	28454	3.74	0.0E+00	5579498	NT	Homo sapiens heat shock 70kD protein 1 (HSPA7A), mRNA
3042	15808	28455	3.74	0.0E+00	5579498	NT	Homo sapiens heat shock 70kD protein 1 (HSPA7A), mRNA
3044	15810		6.88	0.0E+00	AL359403.1	NT	Isform 2 of a novel human mRNA from chromosome 22
3049	15815	28460	1.6	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CREB3 (CREB3) mRNA, partial cds
							Homo sapiens transcription factor (G3H) enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds, and L-type calcium channel α_2
3052	15818		1.98	0.0E+00	AF198779.1	NT	Homo sapiens chloride channel GLC4 (GLC4) mRNA, complete cds
3086	15832	28475	1.19	0.0E+00	AF170492.1	NT	Human perlecan gene 15.1 for Ig lamella L-chain C region (IGL-C15.1)
3074	15840	28483	2.8	0.0E+00	X03529.1	NT	Human perlecan gene 15.1 for Ig lamella L-chain C region (IGL-C15.1)
3080	15845		1.64	0.0E+00	AF198935.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3084	15849	28490	1.72	0.0E+00	AF044588.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3104	15869	28509	3.2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3105	15870	28510	7.83	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3110	15875	28514	3.42	0.0E+00	7082139	NT	Homo sapiens KIAA0468 gene product (KIAA0468), mRNA
3111	15878	28515	1.21	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
							Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCMB1) mRNA
3138	15902	28547	3.74	0.0E+00	4826783	NT	Homo sapiens ferritin heavy chain mRNA, complete cds
3149	15911	28556	28.91	0.0E+00	L20841.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3151	15914	28559	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3157	15914	28560	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
							y62703.3.1 Stratiogene lung (9637210) Homo sapiens cDNA clone IMAGE:19453 3' similar to SP-S28639
3158	15921	28567	8.83	0.0E+00	T84870.1	EST_HUMAN	S28539 BASIC PROTEIN, 23K -
3172	15935	28584	0.98	0.0E+00	BF243334.1	EST_HUMAN	601978507F1 NH_MGC_55 Homo sapiens cDNA clone IMAGE:4107439 5'
3178	15941	28591	4.38	0.0E+00	X06922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3178	15941	28592	4.39	0.0E+00	X06922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28601	1.31	0.0E+00	4758027	NT	Homo sapiens neurokin III (NRXN3) mRNA
3187	15950	28602	1.31	0.0E+00	4758027	NT	Homo sapiens neurokin III (NRXN3) mRNA
3195	15958	28610	8.46	0.0E+00	4504858	NT	Homo sapiens nuclear phosphoprotein B23 (NPBM1) mRNA, complete cds
3211	15974	28626	3.25	0.0E+00	M28696.1	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens GREB binding protein (Rubinstein-Taybi syndrome) (GREBBP) mRNA
3214	15977	28628	1.98	0.0E+00	4502098	NT	
3220	15983	28636	0.85	0.0E+00	4759055	NT	

Single Exon Probes Expressed in Brain

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3220	15093	28637	0.85	0.0E+00	4758056	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3221	15093	28638	3.07	0.0E+00	AA774783.1	EST_HUMAN	ae07b1.1 Strategic clone brain S11 Homo sapiens cDNA clone IMAGE:397133 3'
3222	15093	28639	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3223	15093	28640	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3224	15093	28641	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3225	15093	28642	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3226	15093	28643	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3227	15093	28644	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3228	15093	28645	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3229	15093	28646	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3230	15093	28647	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3231	15093	28648	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3232	15093	28649	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3233	15093	28650	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3234	15093	28651	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3235	15093	28652	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3236	15093	28653	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3237	15093	28654	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3238	15093	28655	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3239	15093	28656	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3240	15093	28657	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3241	15093	28658	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3242	15093	28659	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3243	15093	28660	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3244	15093	28661	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3245	15093	28662	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3246	15093	28663	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3247	15093	28664	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3248	15093	28665	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3249	15093	28666	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3250	15093	28667	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3251	15093	28668	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3252	15093	28669	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3253	15093	28670	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3254	15093	28671	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3255	15093	28672	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3256	15093	28673	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3257	15093	28674	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3258	15093	28675	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3259	15093	28676	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3260	15093	28677	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3398	16156	28807	0.96	0.0E+00	7363438	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3398	16156	28808	0.95	0.0E+00	7363439	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3401	16159	28810	1.36	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584), mRNA
3402	16160	28811	1.42	0.0E+00	AF211180.1	NT	Homo sapiens T-type calcium channel alpha1 subunit A1 (CACNA1I) mRNA, complete cds
3408	16164	28812	0.99	0.0E+00	AW87015.1	EST_HUMAN	MR1-SN033-100400-001-c08 SN0333 Homo sapiens cDNA
3418	16175	28824	1.06	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16175	28825	1.06	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3419	16176	28826	1.34	0.0E+00	4602398	NT	Homo sapiens beaded filament structural protein 1, fibronectin (BFSP-1) mRNA
3421	16178	28827	5.37	0.0E+00	5803007	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3430	15441	28179	1.75	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3435	16191	28840	2.4	0.0E+00	7657638	NT	Homo sapiens death receptor 6 (DR6), mRNA
3438	16194	28844	5.47	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, perA, and parB genes and hcaA, hcaB, and hcaC incompatibility determinants
3440	16196	28846	1.5	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR1), mRNA
3448	16204	28853	3.54	0.0E+00	A835156.1	EST_HUMAN	wpl4d10.x1 NCI CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2494819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE ;
3448	16204	28854	3.54	0.0E+00	A835156.1	EST_HUMAN	wpl4d10.x1 NCI CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2494819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE ;
3452	16206	28859	2.48	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3459	16215	28868	1.82	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3459	16215	28869	1.82	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3464	16220	28874	1.31	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
3470	16226	28880	5.4	0.0E+00	U43263.1	NT	Human MDS1 (AML1/MD5) fusion) mRNA, partial cds
3475	16231	28884	1.18	0.0E+00	9559718	NT	Homo sapiens hypothetical protein (AF038180), mRNA
3475	16231	28885	1.18	0.0E+00	9559718	NT	Homo sapiens hypothetical protein (AF038180), mRNA
3479	16235	28890	1.84	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KGT transcriptional regulatory protein p54 mRNA, complete cds
3479	16235	28891	1.84	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KGT transcriptional regulatory protein p54 mRNA, complete cds
3484	16241	28896	1.12	0.0E+00	AF231922.1	NT	Homo sapiens chromosome 21 unknown mRNA
3486	16252	28905	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143953F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3488	16262	28906	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143953F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3496	16265	28909	0.92	0.0E+00	4626795	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNIE2) mRNA

Page 495 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3504	16260	28914	0.89	0.0E+00	AI354007.1	EST_HUMAN	le55p12.x1 Soares_NH-MP_U1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:000468
3507	16263	28917	1.11	0.0E+00	M10978.1	NT	000468 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN;
3528	16285	28940	1.29	0.0E+00	AV701899.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3530	16286	28941	0.85	0.0E+00	4508894	EST	AV701899 ADB Homo sapiens cDNA clone ADBDAH106 5'
3531	16287	28942	1.74	0.0E+00	AF078868.1	NT	Homo sapiens semaphorin II (SEMG2) mRNA
3538	16288	28946	1.49	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3542	16297	28948	1.21	0.0E+00	AB040609.1	NT	Novel human gene mapping to chromosome X
3561	16316	28963	1.37	0.0E+00	6097248	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
3561	16316	28964	1.37	0.0E+00	6097248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3562	16317	28967	0.89	0.0E+00	AI081907.1	EST_HUMAN	ca70t11.x1 Soares_NH-MP_U1 Homo sapiens cDNA clone IMAGE:1602356 3' similar to WP:11984.4
3564	16319	28967	1.04	0.0E+00	6328468	NT	CE13742;
3568	16324	28971	4.17	0.0E+00	AW852217.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3576	16331	28976	0.78	0.0E+00	AF118946.1	NT	QV0-CT0225-230300-169-a01 CT0225 Homo sapiens cDNA
3577	16332	28976	6.46	0.0E+00	BF676393.1	EST_HUMAN	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3588	16343	28988	0.9	0.0E+00	AW837877.1	EST_HUMAN	602084883F1 NIH_MGC_B3 Homo sapiens cDNA clone IMAGE:4248508 5'
3603	16356	28995	0.74	0.0E+00	BF672054.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3603	16356	28997	0.74	0.0E+00	BF672054.1	EST_HUMAN	602152466F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4236645 5'
3604	16357	28997	0.95	0.0E+00	4828887	NT	602152466F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4236645 5'
3606	16359	28999	1.08	0.0E+00	AW684063.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3606	16359	29000	1.08	0.0E+00	AW684063.1	EST_HUMAN	1844g01.x1 Soares_NFL_T1 GBC_S1 Homo sapiens cDNA clone IMAGE:2976024 3'
3609	16362	29004	1.42	0.0E+00	4828763	NT	1844g01.x1 Soares_NFL_T1 GBC_S1 Homo sapiens cDNA clone IMAGE:2976024 3'
3611	16364	29007	0.83	0.0E+00	7062319	NT	Homo sapiens heparan sulfite (glucosaminyl) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3621	16374	29015	0.82	0.0E+00	4557752	NT	Homo sapiens KIAA0906 gene product (KIAA0906), mRNA
3621	16374	29016	0.82	0.0E+00	4557752	NT	Homo sapiens midline 1 (OpticBBB syndrome) (MID1) mRNA
3636	16391	29030	2.67	0.0E+00	D67327.1	NT	Homo sapiens midline 1 (OpticBBB syndrome) (MID1) mRNA
3642	16395	29037	33.2	0.0E+00	7080491	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3668	16411	29049	2.6	0.0E+00	AB026842.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3690	16413	29051	3.38	0.0E+00	AF124260.1	NT	Homo sapiens WAVES mRNA for WASP-family protein, complete cds
3690	16413	29052	3.38	0.0E+00	AF124260.1	NT	Homo sapiens SH2-containing protein Naps2 mRNA, complete cds
3698	16421	29061	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Naps2 mRNA, complete cds
3698	16421	29062	1.85	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3671	16424	29065	1.62	0.0E+00	AW851714.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
							MR2-CT0222-281089-005-a05 CT0222 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3673	16426	29087	1.53	0.0E+00	5729028	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP-24), mRNA
3675	16426	29089	1.81	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0706 protein, partial cds
3677	16430	29071	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3679	16430	29072	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3679	16432	29074	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/leucine (KIAA0670), mRNA
3679	16432	29075	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/leucine (KIAA0670), mRNA
3692	16445	29084	4.35	0.0E+00	AW298134.1	EST_HUMAN	U1H-BW0-qls-e-12-q-U1st NC1 CGAP Sub0 Homo sapiens cDNA clone IMAGE:2753022 3'
3692	16445	29085	4.35	0.0E+00	AW298134.1	EST_HUMAN	U1H-BW0-qls-e-12-q-U1st NC1 CGAP Sub0 Homo sapiens cDNA clone IMAGE:2753022 3'
3714	16467	29105	1.08	0.0E+00	AA483659.1	EST_HUMAN	SW406B4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4, [1];
3718	16471	29109	1.14	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0603 protein, partial cds
3721	16474	29111	3.31	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3730	16482	29120	0.82	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3742	16485	29130	4.9	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3745	16498	29133	4.29	0.0E+00	4508718	NT	Homo sapiens v-src avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	16503	29138	1.08	0.0E+00	7657065	NT	Homo sapiens v-src avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	16503	29139	1.08	0.0E+00	7657065	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3800	16552	29152	0.71	0.0E+00	AF195696.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3802	16564	29185	2.86	0.0E+00	AF197933.1	NT	Pan troglodytes diacyl receptor (PTR208) gene, partial cds
3804	16566	29187	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3804	16566	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3808	16580	29183	1.24	0.0E+00	4756011	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3808	16581	29184	1.07	0.0E+00	10181139	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3812	16584	29187	1.07	0.0E+00	AI377699.1	EST_HUMAN	Homo sapiens junctional protein 1 (Jpl-junctional), mRNA
3813	16585	29187	1.87	0.0E+00	AF152498.1	NT	Mus musculus protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3814	16586	29188	1.14	0.0E+00	4758195	NT	Homo sapiens desmoplakin (DPI, DP1) (DSP) mRNA
3818	16570	29202	10.39	0.0E+00	S78885.1	NT	Homo sapiens ATP-sensitive twofold rectifying K-channel subunit (KCNJ8/BIR1) gene, complete cds
3819	16571	29203	2.22	0.0E+00	7710148	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3820	16572	29204	6.03	0.0E+00	7632183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3824	16576	29207	1.23	0.0E+00	AF068801.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3824	16576	29208	1.23	0.0E+00	AF068801.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3828	16580	29213	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3829	16580	29214	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds

Page 497 of 536
Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3831	16592	292216	1.12	0.0E+00	6612735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3835	16596	292222	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3836	16596	292223	6.18	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3837	16598	292226	4.04	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134, mRNA, complete cds
3838	16598	292227	0.69	0.0E+00	AF114468.1	NT	Homo sapiens Interactin short isoform (ITSN), mRNA, complete cds
3841	16592	292229	2.96	0.0E+00	4829783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1), mRNA
3844	16595	292232	1.05	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2), gene, exon 11
3845	16596	292233	1.43	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
3847	16598	292235	0.74	0.0E+00	AF098117.1	NT	Homo sapiens amphiphysin gene, partial cds
3856	16606	292244	2.16	0.0E+00	AB84727.1	EST_HUMAN	W401101.X1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TRIO43940
3856	16606	292248	4.24	0.0E+00	4506742	NT	O43340 R26930.2, contains element P17R repetitive element ;
3862	16612	292251	1.35	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3867	16617	292256	1.28	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3867	16617	292257	1.28	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3869	16619	292259	3.22	0.0E+00	4504138	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
3871	16621	292263	1.82	0.0E+00	4505078	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1), mRNA
3875	16625	292263	1.18	0.0E+00	AF149412.1	NT	Homo sapiens HBPI17 heparin-binding and FGF-binding protein gene, complete cds
3884	16634	292273	1.2	0.0E+00	4506758	NT	Homo sapiens tyrosine receptor 3 (RYR3), mRNA
3888	16638	292277	1.47	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (ZNF40412), mRNA
3898	16648	292286	1.18	0.0E+00	BF355295.1	EST_HUMAN	RC3-H110890-170800-011-412 HT0860 Homo sapiens cDNA
3898	16648	292288	1.05	0.0E+00	AW688221.1	EST_HUMAN	MXRA5 Human milk tissue expression library/Homo sapiens cDNA clone Incyte 1986723 similar to MXRA5
3898	16648	292289	1.05	0.0E+00	AW688221.1	EST_HUMAN	MXRA5 Human milk tissue expression library/Homo sapiens cDNA clone Incyte 1986723 similar to MXRA5
3904	16654	292296	1.82	0.0E+00	AF126033.1	NT	MXRA5 Human milk tissue expression library/Homo sapiens cDNA clone Incyte 1986723 similar to MXRA5
3907	16657	292298	1	0.0E+00	AW461908.1	EST_HUMAN	Homo sapiens F-box protein FBX35 (FBX35), mRNA, partial cds
3912	16662	292303	2.81	0.0E+00	BE378002.1	EST_HUMAN	U1-HB18-ahg-07-Q1.1a1 NCI_CGAP Sub5 Homo sapiens cDNA clone IMAGE:2796949 3'
3920	16670	292311	0.82	0.0E+00	AW580740.1	EST_HUMAN	601236068F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608900 5'
3922	16672	292312	2.49	0.0E+00	5360215	NT	PAS-L1T0031-100100-003-H09 LT0031 Homo sapiens cDNA
3923	16673	292314	0.98	0.0E+00	BE264698.1	EST_HUMAN	Homo sapiens Klucrat 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
3923	16673	292314	0.98	0.0E+00	BE264698.1	EST_HUMAN	601163827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
3952	16702	292339	1.42	0.0E+00	U10901.1	NT	601163827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'

Page 498 of 536

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3952	16702	29340	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3952	16702	29341	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3957	16702	29344	4.09	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3957	16708	29345	4.09	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3968	16715	29346	4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DP4-beta-2 pseudogene, exon 2
3968	16715	29346	4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DP4-beta-2 pseudogene, exon 2
3975	16724	29350	5.74	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
3975	16724	29350	5.74	0.0E+00	AL163303.2	NT	Novel human gene mapping to chromosome 20
3979	16727	29381	1.35	0.0E+00	AL118494.1	NT	Homo sapiens chromosome 21 segment HS21C084
3979	16727	29381	3.22	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3987	16735	29388	1.71	0.0E+00	AL163288.2	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
3989	16747		27.98	0.0E+00	4503470	NT	Homo sapiens KIAA0563 cDNA clone IMAGE:2244734 3' similar to TR:060309 O60309
4003	16760		1.15	0.0E+00	AK57076.1	EST_HUMAN	KIAA0563 PROTEIN...
4005	16761	29382	2.97	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4005	16762	29383	2.65	0.0E+00	U09386.1	NT	Human zinc finger protein ZNF133
4013	16769	29387	0.95	0.0E+00	AW339480.1	EST_HUMAN	pc971610.X1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:2871594 3'
4024	16768	29401	6.33	0.0E+00	AB015610.1	NT	Chlorococcus ethiops mRNA for ribosomal protein S4X, complete cds
4033	16776		3.72	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (RNA48 gene)
4045	16790	29418	1.32	0.0E+00	AB002314.2	NT	Homo sapiens mRNA for KIAA0316 protein, partial cds
4046	16791	29419	1.04	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4047	16792	29420	1.78	0.0E+00	AF038943.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4048	16793	29421	2.66	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4048	16793	29422	2.95	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4054	16799	29429	6.29	0.0E+00	5032028	NT	Homo sapiens myelin transcription factor 1-like (MTF1-L) mRNA, complete cds
4054	16799	29430	6.29	0.0E+00	5032028	NT	Homo sapiens myelin transcription factor 1-like (MTF1-L) mRNA, complete cds
4054	16799	29442	4.7	0.0E+00	4883306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4060	16813	29443	6.98	0.0E+00	AB008925.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4070	16814	29444	1.11	0.0E+00	4759807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4073	16817	29444	5.87	0.0E+00	11419297	NT	Homo sapiens INP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4074	16818	29445	1.94	0.0E+00	AL008857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4075	16819	29446	1.94	0.0E+00	AL008857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4082	16828	29453	2.71	0.0E+00	AF165527.1	NT	Homo sapiens DGG8 (DGG8) mRNA, complete cds
4091	13867	29525	0.82	0.0E+00	4829847	NT	Homo sapiens protein kinase X-linked (PRKX) mRNA
4091	13867	29526	0.82	0.0E+00	4829847	NT	Homo sapiens protein kinase X-linked (PRKX) mRNA
4097	16940	29496	1.09	0.0E+00	6001608	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4098	16942	29499	1.08	0.0E+00	4903854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA

Page 499 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4099	18842	29470	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
4107	18850	29476	0.99	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4112	18855	29482	4.03	0.0E+00	AI082597.1	EST_HUMAN	w04404.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4112	18855	29482	4.03	0.0E+00	AI082597.1	EST_HUMAN	w04404.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4112	18855	29482	4.03	0.0E+00	BE184856.1	EST_HUMAN	MR1-H10707-100500-001-402 H10707 Homo sapiens cDNA
4115	18857	29488	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-H10707-100500-001-402 H10707 Homo sapiens cDNA
4115	18857	29488	0.82	0.0E+00	BE274217.1	EST_HUMAN	801120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2087690 5'
4120	18862	29495	2.34	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	18868	29495	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	18868	29496	0.99	0.0E+00	AB032951.1	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4128	18870	29498	2.24	0.0E+00	51720725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4135	18877		5.52	0.0E+00	AW675599.1	EST_HUMAN	Q85108 MITOCHONDRIAL THIOPEROXIDASE PRECURSOR
4140	18882	29511	1.14	0.0E+00	AW408768.1	EST_HUMAN	ULHF-BM0-ado-02-0-JULI NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4142	18884	29514	1.26	0.0E+00	8022405	NT	Homo sapiens hypodermal protein FLJ10468 (FLJ10468), mRNA
4142	18884	29515	1.26	0.0E+00	8022405	NT	Homo sapiens hypodermal protein FLJ10468 (FLJ10468), mRNA
4151	18883		2.8	0.0E+00	5174032	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, see ucrtin homolog)-like (PKORFJ) mRNA
4189	18909	29537	8.97	0.0E+00	AA401438.1	EST_HUMAN	z068107.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element;
4189	18909	29538	8.97	0.0E+00	AA401438.1	EST_HUMAN	z068107.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element;
4205	18946	29638	1.01	0.0E+00	AL193303.2	NT	Homo sapiens chromosome 21 segment HS21CTC03
4240	18961	29605	4.08	0.0E+00	J02810.1	NT	Homo sapiens chromosome B-100 mRNA, complete cds
4255	18966	29625	0.83	0.0E+00	AW036888.1	EST_HUMAN	PM2-D170023-080300-004-008 D170023 Homo sapiens cDNA
4261	17002	29633	0.74	0.0E+00	4828827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4261	17002	29634	0.74	0.0E+00	4828827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4261	17002	29634	0.74	0.0E+00	4828827	NT	Homo sapiens F-box protein FBX4 (FBX4) mRNA, partial cds
4263	17004	29636	4.7	0.0E+00	AF114500.1	NT	z022008.x1 Soares placenta_Ribowaska 2XNB-IP666W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20 repetitive element;
4270	17010		2.52	0.0E+00	AI189844.1	EST_HUMAN	Human CBFA2 (Cbfa2) gene, partial cds
4273	17012		4.32	0.0E+00	U14320.1	NT	Human CBFA2 (Cbfa2) gene, partial cds
4285	17024	29650	1.35	0.0E+00	4805846	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29657	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29658	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4297	17036	29664	1.98	0.0E+00	U10091.1	NT	Human G2 protein mRNA, partial cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4297	17038	29865	1.58	0.0E+00	U10891.1	NT	Human G2 protein mRNA, partial cds
4307	17046	29871	8.31	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4327	17096		1.18	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4337	17076	29704	4.17	0.0E+00	L14681.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4341	17080	29709	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4341	17080	29710	2.88	0.0E+00	Z80780.1	NT	xc68a10.x1 NCL CGAP U14 Homo sapiens cDNA, clone IMAGE:2633514, 3' similar to TRP-P97365 P97365
4342	17081	29711	0.94	0.0E+00	AW169833.1	EST_HUMAN	ZINC FINGER PROTEIN 64:
4348	17087	29717	1.42	0.0E+00	X80483.1	NT	H. sapiens H4/d gene for H4 histone
4348	17087	29718	1.42	0.0E+00	X80483.1	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29724	8.62	0.0E+00	7682081	NT	Homo sapiens KIAA0360 gene product (KIAA0360), mRNA
4353	17091	29725	8.62	0.0E+00	7682081	NT	Homo sapiens KIAA0360 gene product (KIAA0360), mRNA
4366	17104	29740	12.59	0.0E+00	4985126	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4367	17105	29741	1.14	0.0E+00	AJ271738.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
4400	17137	29766	0.98	0.0E+00	AJ271738.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4408	17145		0.5	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (ANPEP2) gene, complete cds
4414	17151	29778	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4414	17151	29779	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4436	17172		1.81	0.0E+00	AF200629.1	NT	Homo sapiens HPS1 gene, intron 6
4453	17189	29814	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cdb-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-P205 6'
4458	17189	29815	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cdb-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-P205 6'
4458	17192		0.73	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
4466	17202	29828	5.68	0.0E+00	AW084964.1	EST_HUMAN	xc68a10.x1 NCL CGAP Eso2 Homo sapiens cDNA clone IMAGE:2694446 3' similar to SW-AHINK_HUMAN
4488	17981		1.57	0.0E+00	8051616	NT	Q08068 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK;
4470	17205	29831	0.93	0.0E+00	AI99968.1	EST_HUMAN	Homo sapiens LIM domain kinase 2 (LMK2), transcript variant 2a, mRNA
4473	17208		8.82	0.0E+00	AL163207.2	NT	ws68a02.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2322603 3' similar to contains MER22.b2
4475	17210	29835	3.17	0.0E+00	AW381670.1	EST_HUMAN	PTR5 repetitive element;
4481	17216	29842	1.89	0.0E+00	AJ278120.1	NT	Homo sapiens chromosome 21 segment HS21C007
4481	17216	29843	1.96	0.0E+00	AJ278120.1	NT	PM1-HT0305-101198-002-303 HT0305 Homo sapiens cDNA
4483	17218	29845	1.29	0.0E+00	4758467	NT	Homo sapiens mRNA for putative ankryin-repeat containing protein (ORF1)
4484	17219	29846	2.88	0.0E+00	AF108830.1	NT	Homo sapiens mRNA for putative ankryin-repeat containing protein (ORF1)
							Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
							Homo sapiens serine-threonine protein kinase (MNIB1) mRNA, complete cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4463	17229	29858	1.26	0.0E+00	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4464	17230	29859	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEPV) gene, complete cds
4464	17230	29860	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEPV) gene, complete cds
4502	17892	29870	2.96	0.0E+00	0005973	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
4507	17242	29875	6.16	0.0E+00	AF208161.1	NT	Homo sapiens synapsin precursor, mRNA, complete cds
4512	17247	29882	4.31	0.0E+00	AF152337.1	NT	Homo sapiens protocadherin gamma C3 (PODH-gamma-C3) mRNA, complete cds
4515	17250	29886	1.32	0.0E+00	5434175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4526	17260	29894	15.47	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4532	17267	29900	0.79	0.0E+00	4505016	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4536	17271	29903	1.61	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4540	17275	29908	2.03	0.0E+00	4502558	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4544	17279	29910	2.38	0.0E+00	L35485.1	NT	Homo sapiens thymocyte sulphatase (DS) gene, complete cds
4546	17281	29911	12.72	0.0E+00	7982091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4546	17281	29911	12.72	0.0E+00	7982091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4563	17298	29925	0.96	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4568	17301	29928	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4568	17301	29929	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4581	17316	29947	1.68	0.0E+00	AA174072.1	EST_HUMAN	zfp1808.s1 Stratiotes feld rellii 637202 Homo sapiens cDNA clone IMAGE:600864 3'
4583	17318	29948	1.48	0.0E+00	7857410	NT	Homo sapiens cdc (odd Ozfren-m, Drosophila) homolog 1 (ODZ1), mRNA
4585	17320	29949	3.16	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4586	17321	29947	1.04	0.0E+00	H82741.1	EST_HUMAN	y02501.s1 Soares phaeo gland_NSI-IPG Homo sapiens cDNA clone IMAGE:231721 3'
4586	17321	29948	1.04	0.0E+00	H82741.1	EST_HUMAN	y02501.s1 Soares phaeo gland_NSI-IPG Homo sapiens cDNA clone IMAGE:231721 3'
4587	17322	29949	2.8	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKT1) gene, complete cds
4588	17323	29950	4.94	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4589	17324	29950	1.66	0.0E+00	AB037621.1	NT	Homo sapiens gene for netretic protein, partial cds
4596	17331	29956	1.53	0.0E+00	4557687	NT	Homo sapiens keratin 18 (KRT18) mRNA
4596	17331	29956	1.53	0.0E+00	4557687	NT	Homo sapiens keratin 18 (KRT18) mRNA
4597	17332	29960	1.52	0.0E+00	AF163819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4597	17332	29961	1.52	0.0E+00	AF163819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4568	17333	29682	1.5	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4605	17340	29670	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4605	17340	29671	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4611	17346	29678	5.25	0.0E+00	Y18990.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4617	17352	29687	1.08	0.0E+00	AA418248.1	EST_HUMAN	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4624	17359		2.27	0.0E+00	AF068641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4629	17364	29698	1.09	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21O078
4629	17364	29699	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21O078
4630	17365	30000	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4630	17366	30001	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4631	17366	30002	2.87	0.0E+00	M74098.1	NT	Human displacement protein (CCAA1) mRNA
4635	17370	30005	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30006	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30008	1.84	0.0E+00	T66945.1	EST_HUMAN	ye83g04.12 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:58310 5'
4635	17370	25593	0.82	0.0E+00	T66945.1	EST_HUMAN	ye83g04.12 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:58310 5'
4635	17370	25594	0.82	0.0E+00	BE278730.1	EST_HUMAN	601158935F1 NIH_JMGC_21 Homo sapiens cDNA clone IMAGE:350521 6'
4639	17373	30029	1.31	0.0E+00	U50651.1	NT	Mus musculus neurophilin 1 (Noph1) gene, large exon and 3' end of the intron, and partial cds
4650	17394	30033	1.33	0.0E+00	M80902.1	NT	Human ATRAK nucleoporin mRNA, 5' end
4655	17398	30033	6.87	0.0E+00	M80902.1	NT	Human ATRAK nucleoporin mRNA, 5' end
4658	17402	30036	2.23	0.0E+00	M80197.1	NT	Human heparin and heparin-binding protein (HP and HPR) genes, complete cds
4658	17402	30037	2.23	0.0E+00	M80197.1	NT	Human heparin and heparin-binding protein (HP and HPR) genes, complete cds
4671	17405	30040	1.9	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NCTR) gene, complete cds
4673	17407	30042	2.02	0.0E+00	7682181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4680	17414	30040	0.95	0.0E+00	U07593.1	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds
4681	17415	30050	0.97	0.0E+00	S71443.1	NT	SCN1A brain type I sodium channel alpha-subunit (IIIS transmembrane region) [human, placenta, Genomic, 1558 nt]
4681	17415	30051	0.97	0.0E+00	S71443.1	NT	SCN1A brain type I sodium channel alpha-subunit (IIIS transmembrane region) [human, placenta, Genomic, 1558 nt]
4682	17428	30055	1.45	0.0E+00	X58467.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D8
4701	17435	30065	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ28), mRNA
4701	17435	30066	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ28), mRNA
4709	17441	30073	1.4	0.0E+00	AF026801.1	NT	Homo sapiens alpha-3 type IX collagen (COL3A3) gene, promoter region, and exons 1-28
4712	17444	30076	0.84	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4712	17444	30077	0.84	0.0E+00	7018220	NT	Homo sapiens protein6008 (AD013), mRNA
4735	17467	30103	1.88	0.0E+00	AW444837.1	EST_HUMAN	U1-HB-47c-04-01-11 NG CGAP Sub5 Homo sapiens cDNA clone IMAGE-2733284 3'
4740	17472		1.82	0.0E+00	AF083242.1	NT	Homo sapiens HSPG32-100 mRNA, complete cds
4750	17482		2.28	0.0E+00	M05189.1	NT	Human connectin 43 processed pseudogene
4780	17521		2.79	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4794	17525	30147	2.02	0.0E+00	X67205.1	NT	M.fascicularis mRNA for metalloproteinase-like, disintegrin-like protein, Iva
4796	17527	30149	1.11	0.0E+00	AF084478.1	NT	Homo sapiens Williams-Buren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
4797	17528	30150	1.90	0.0E+00	AF007416.1	NT	Mus musculus zinc finger transcription factor Kalso mRNA, complete cds
4798	17529	30151	3.01	0.0E+00	4603766	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4800	17531	30153	13.57	0.0E+00	4885049	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4801	17532	30154	1.04	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4803	17535	30159	5.7	0.0E+00	8922080	NT	Homo sapiens hypodermal protein FLJ20073 (FLJ20073), mRNA
4809	17540	30183	0.97	0.0E+00	7691979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4810	17541	30184	1.84	0.0E+00	M94081.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-J61 segments; and Tor-C-alpha gene, exons 1-4
4810	17541	30185	1.84	0.0E+00	M94081.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-J61 segments; and Tor-C-alpha gene, exons 1-4
4812	17543	30187	1.44	0.0E+00	X94628.1	NT	J61 segments, and Tor-C-alpha gene, exons 1-4
4812	17543	30188	1.44	0.0E+00	X94628.1	NT	H.sapiens MeCP-2 gene
4815	17546	30171	2.98	0.0E+00	AL163280.2	NT	H.sapiens MeCP-2 gene
4823	17554	30176	1.17	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1 28KD (TAF-2) mRNA
4830	17561	30183	1.09	0.0E+00	X92841.1	NT	H.sapiens MICA gene
4832	17563	30185	1.81	0.0E+00	4595842	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4833	17564	30186	1.81	0.0E+00	AB014833.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
4834	17566	30187	2.24	0.0E+00	6677848	NT	Mus musculus zinc finger protein interacting with K protein 1 (ZK1), mRNA
4836	17568	30188	0.96	0.0E+00	5174590	NT	Homo sapiens meningioma expressed antigen 6 (called-cd61 proline-rich) (MGEA6), mRNA
4836	17567	30189	1.19	0.0E+00	4756199	NT	Homo sapiens desmoplamin (DP1, DP1) (DSP) mRNA
4838	17569	30181	1.81	0.0E+00	7705546	NT	Homo sapiens zinc-finger DNA-binding protein (ZNF100/XY1), mRNA
4842	17572	30196	12.82	0.0E+00	AF055066.1	NT	Homo sapiens MHC class I region
4844	17574	30199	3.47	0.0E+00	4505508	NT	Homo sapiens opitoid receptor, delta 1 (OPRD1) mRNA
4845	17575	30199	2.30	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
4858	17587	30210	1.07	0.0E+00	D63562.1	NT	Homo sapiens COL4A3 gene for alpha(V) collagen, exon 44 and partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4890	17589	30212	1.98	0.0E+00	4503964	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPs) mRNA
4895	17524	29852	1.03	0.0E+00	4509852	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminidase: alpha-2,8-sialyltransferase, GD3 synthase) (SIA1B) mRNA
4875	17602	30224	3.09	0.0E+00	AB000625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4875	17602	30225	3.09	0.0E+00	AB000625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4885	17612	30232	0.95	0.0E+00	AB026988.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4890	17629	30243	1.45	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21G084
4906	17633	30248	1.02	0.0E+00	AW452728.1	EST_HUMAN	UI-H-B19-4M4-02-Q-UI-1 NCI CGAP Subst Homo sapiens cDNA clone IMAGE:3068891 3'
4909	17637	30251	1.61	0.0E+00	8622926	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA
4912	17640	30255	1.09	0.0E+00	4502388	NT	Homo sapiens basic filament structural protein 1, filensin (BFSPT1) mRNA
4915	17643		4.89	0.0E+00	U14087.1	NT	Human ribosomal protein L21 mRNA, complete cds
4924	17652		2.95	0.0E+00	BE408863.1	EST_HUMAN	601303728F1 NIH J_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
4928	17656	30269	3.18	0.0E+00	4735189	NT	Homo sapiens desmoplakin (DPI, DPT1) (DSP) mRNA
4933	17661	30271	1.15	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4938	17666	30274	1.01	0.0E+00	AB028698.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4947	17674	30283	2.34	0.0E+00	8623441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4947	17674	30284	2.34	0.0E+00	8623441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4958	17683	30291	0.81	0.0E+00	AA001246.1	EST_HUMAN	not4906.s1 NCI CGAP Phet Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR-E239140
4958	17683	30292	0.81	0.0E+00	AA001246.1	EST_HUMAN	not4906.s1 NCI CGAP Phet Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR-E239140
4958	17683	30293	0.81	0.0E+00	AA001246.1	EST_HUMAN	not4906.s1 NCI CGAP Phet Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR-E239140
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4973	13019	25061	0.71	0.0E+00	AF165096.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4978	17698		0.84	0.0E+00	AL050253.1	NT	H. sapiens mRNA similar to D39763 mouse mRNA for seizure-related gene product 6, Shares domains with BMPs, Toloid, Sushi repeat proteins
4985	17708	30312	1.63	0.0E+00	AF016705.1	NT	Homo sapiens E9-AP ubiquitin-protein ligase (UBE3A) gene, exon 3
4988	17709	30313	1.5	0.0E+00	Y16186.1	NT	Mus musculus mRNA for aczonin, short spliced variant (acc gene)
4988	17709	30314	1.5	0.0E+00	Y16186.1	NT	Mus musculus mRNA for aczonin, short spliced variant (acc gene)
4994	17717		1.26	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4997	17720		28.03	0.0E+00	D50657.1	NT	Homo sapiens geminin-cytoskeletal actin (ACTG3) pseudogene
5001	17724	30326	0.97	0.0E+00	AA084272.1	EST_HUMAN	zinc finger protein 10.1 (ZNF10.1) Striatum N1 neuron (4937233) Homo sapiens cDNA clone IMAGE-548402 5'
5001	17724	30327	0.97	0.0E+00	AA084272.1	EST_HUMAN	zinc finger protein 10.1 (ZNF10.1) Striatum N1 neuron (4937233) Homo sapiens cDNA clone IMAGE-548402 5'
5012	16924	29553	0.96	0.0E+00	4507720	NT	Homo sapiens thin (TTN) mRNA
5012	16924	29554	0.95	0.0E+00	4507720	NT	Homo sapiens thin (TTN) mRNA
5028	17747	30359	3	0.0E+00	X52988.1	NT	Bacillus amyloquelificans sacB gene for levansucrase (EC 2.4.1.10)
5042	17761	30375	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vesicular endothelial cadherin 2 mRNA, complete cds
5042	17761	30376	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vesicular endothelial cadherin 2 mRNA, complete cds
5045	17764	30380	1.55	0.0E+00	7657074	NT	Homo sapiens eotopic viral integration site 2A (EV2A), mRNA
5045	17764	30381	1.56	0.0E+00	7657074	NT	Homo sapiens eotopic viral integration site 2A (EV2A), mRNA
5049	17768	30387	1.11	0.0E+00	AL163281.2	NT	Homo sapiens eotopic viral integration site 2A (EV2A), mRNA
5050	17769	30388	14.05	0.0E+00	11421001	NT	Homo sapiens chromosome 21 segment HS21C081
5052	17771	30389	1.03	0.0E+00	4557362	NT	Homo sapiens HEF like Protein (HEFL), mRNA
5056	17775	30391	2.75	0.0E+00	Y12477.1	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5056	17775	30392	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5058	17777	30394	1.07	0.0E+00	Y08032.1	NT	Homo sapiens putative GPR37 gene, exon 2
5079	17798	30414	1.01	0.0E+00	8623822	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
5079	17798	30415	1.01	0.0E+00	8623822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30417	0.78	0.0E+00	7708246	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30418	0.78	0.0E+00	7708246	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5088	17807	30423	2.69	0.0E+00	7657008	NT	Homo sapiens deleted in bladder cancer chromosome region candidate 1 (DBCCR1), mRNA
5097	17816	30433	2.05	0.0E+00	AB011131.1	NT	Homo sapiens mRNA for KIAA0560 protein, partial cds
5109	17827	30444	1.23	0.0E+00	D49802.1	NT	Mus musculus mRNA for leucine-rich repeat protein, partial cds
5110	17828	30446	1.14	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5111	17828	30446	1.86	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5112	17830	30447	0.96	0.0E+00	AF245702.1	NT	Homo sapiens toll-like receptor 7 (TLR7) mRNA, complete cds
5115	17833	30449	6.63	0.0E+00	4505068	NT	Homo sapiens microtubule-associated protein 2 (MAP2) mRNA
5116	17834	30450	1.5	0.0E+00	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5116	17834	30451	1.5	0.0E+00	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5117	17835	30452	1.5	0.0E+00	AW85819.1	EST_HUMAN	EST187880 MAGS resequences, MAGD Homo sapiens cDNA
5119	17837		1.31	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
5126	17844		1.12	0.0E+00	AL010179.1	NT	Homo sapiens gabrb1 receptor gene, exon 6

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5139	17957	30473	5.57	0.0E+00	AB027013.1	NT	Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, complete cds
5150	17961	30477	1.19	0.0E+00	AB035358.1	NT	Homo sapiens mRNA for neuritin alpha protein, complete cds
5151	17968	30481	1.18	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
5154	17971		1.08	0.0E+00	M91803.1	NT	Homo sapiens sodium channel mRNA
5155	17972	30484	1.37	0.0E+00	5454013	NT	Homo sapiens ring finger protein 15 (RNF15), mRNA
5162	17993		3.44	0.0E+00	AF069303.1	NT	Homo sapiens acyltransferase (ACOT2) gene, nuclear gene encoding mitochondrial protein, exon 13
5172	17991	30495	2.52	0.0E+00	AF137266.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5172	17991	30496	2.52	0.0E+00	AF137266.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5192	18000	30623	1.29	0.0E+00	AB024054.1	EST_HUMAN	wp06g08.x1 NCI CGAP_K012 Homo sapiens cDNA clone IMAGE:2494094 3'
5195	18003	30628	1.77	0.0E+00	9259578	NT	Homo sapiens proteoglycan alpha 13 (PGDH13), mRNA
5209	18017	30639	3.81	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076-310800-013-b03 GN0076 Homo sapiens cDNA
5213	18021	30643	3	0.0E+00	AF162034.1	NT	Homo sapiens polyoma kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30644	3	0.0E+00	AF162034.1	NT	Homo sapiens polyoma kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5220	18027	30652	1.66	0.0E+00	X59163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5220	18027	30653	1.66	0.0E+00	X59163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5239	18104	30763	6.56	0.0E+00	BE875488.1	EST_HUMAN	710006.x1 NCI CGAP_GLI1 Homo sapiens cDNA clone IMAGE:3294250 3'
5300	18105	30764	1.75	0.0E+00	BE220763.1	EST_HUMAN	h99a02.x1 NCI CGAP_L124 Homo sapiens cDNA clone IMAGE:3165104 3' similar to SW:Y054_HUMAN
5301	18106	30765	1.93	0.0E+00	BE794412.1	EST_HUMAN	P42864 HYPOTHETICAL PROTEIN KIAA0084. ;
5301	18106	30766	1.93	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943904 5'
							601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943904 5'
5302	18107	30767	0.81	0.0E+00	AI189142.1	EST_HUMAN	q04a04.x1 Soares placenta 8160000 21k-IP860W Homo sapiens cDNA clone IMAGE:172702 3' similar to SW:12D3 DROME P49846 TRANSCRIPTION INITIATION FACTOR IFHD 85 KD SUBUNIT ;
5309	18111	30770	5.17	0.0E+00	M29008.1	NT	Homo sapiens coiled-coil perlecan (EPP) gene, exon 7
5319	25068	30780	4.68	0.0E+00	11421038	NT	Homo sapiens Sp1 transcription factor (SP4), mRNA
5329	18132		7.18	0.0E+00	BF065962.1	EST_HUMAN	602118628F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4216254 5'
5330	18133	30781	0.73	0.0E+00	AI134406.1	EST_HUMAN	AU134406 OVAC1 Homo sapiens cDNA clone OVARC1001894 5'
5330	18133	30782	0.73	0.0E+00	AI134406.1	EST_HUMAN	AU134406 OVAC1 Homo sapiens cDNA clone OVARC1001894 5'
5335	18138	30790	1	0.0E+00	BE839857.1	EST_HUMAN	601007486F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5344	18147	30826	1.07	0.0E+00	BE262784.1	EST_HUMAN	601105591F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2686310 5'
5348	18151	30831	1.66	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI CGAP_Bln84 Homo sapiens cDNA clone IMAGE:4214272 5'
5348	18151	30832	1.66	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI CGAP_Bln84 Homo sapiens cDNA clone IMAGE:4214272 5'
5367	19491	32513	1.82	0.0E+00	4457384	NT	Homo sapiens Bloom syndrome (BLM) mRNA
5370	18171	30858	0.91	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5370	18171	30859	0.91	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0469 protein, partial cds
5374	18174	30863	4.88	0.0E+00	AF267737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5374	18174	30864	4.85	0.0E+00	AF267737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5387	18187	30878	1.06	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidin succinyltransferase, complete cds (exon 1-15)
5387	18187	30878	1.06	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidin succinyltransferase, complete cds (exon 1-15)
5401	18201	30906	1.88	0.0E+00	11420819	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5407	18206	30912	0.81	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
5429	18225	30896	0.78	0.0E+00	D61594.1	EST_HUMAN	HUM418D068 Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5426	18225	30837	0.78	0.0E+00	D61594.1	EST_HUMAN	HUM418D068 Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5429	18228	30941	2.55	0.0E+00	BF529631.1	EST_HUMAN	602042322F1 NCI CGAP Brm67 Homo sapiens cDNA clone IMAGE:4178988 5'
5429	18228	30942	2.55	0.0E+00	BF529631.1	EST_HUMAN	602042322F1 NCI CGAP Brm67 Homo sapiens cDNA clone IMAGE:4178988 5'
5434	18233	30946	2.92	0.0E+00	BF313138.1	EST_HUMAN	801897859F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128815 5'
5445	18244	31132	4.37	0.0E+00	11420819	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5477	18276	31171	1.15	0.0E+00	BE260777.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502809 5'
5486	18285	31196	3.51	0.0E+00	AW867316.1	EST_HUMAN	MIR-SN0037-090400-001-H07 SN0037 Homo sapiens cDNA
5500	18298	31197	2.33	0.0E+00	BE292898.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5521	18319	31220	1.51	0.0E+00	AF064254.1	NT	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5528	18326	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5528	18326	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5535	18333	31239	2.95	0.0E+00	AJ224598.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5535	18333	31240	2.95	0.0E+00	AJ224598.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5586	18393	31271	0.61	0.0E+00	AI108515.1	EST_HUMAN	Homo sapiens Surf-5 and Surf-6 genes
5570	18397	31277	6.98	0.0E+00	M85719.1	EST_HUMAN	q94910.1 Scores, Jaccaria, Stenewick, 2001H9802W Homo sapiens cDNA clone IMAGE:1757730 3'
5577	18374	31286	4.83	0.0E+00	AW405472.1	EST_HUMAN	EST102238 Fetal brain, Stratiene (cat#830206) Homo sapiens cDNA clone HFBGM48
5590	18398	31296	1.25	0.0E+00	Z26298.1	NT	UHF-BL0-act-d-02-UJ1-1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5601	18398	31306	1.94	0.0E+00	AW361877.1	EST_HUMAN	H. sapiens isoform 1 gene for L-type calcium channel, exon 14 and 15
5601	18398	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM8-CT0263-061299-007-H05 CT0263 Homo sapiens cDNA
5601	18398	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM8-CT0263-061299-007-H05 CT0263 Homo sapiens cDNA
5605	18401	31315	2.55	0.0E+00	U93281.1	NT	Human beta-prime-adipin (BAM22) gene, exon 13

Table 4

Top Hit Descriptor

508/536

Page 509 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5872	18669	31600	0.77	0.0E+00	BF155670.1	EST_HUMAN	QV4-HT0884-280600-398-a10 HT0884 Homo sapiens cDNA
5878	18664	31604	3.22	0.0E+00	W33056.1	EST_HUMAN	z308100.1 Soares_papillary_thyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18664	31605	3.22	0.0E+00	W33056.1	EST_HUMAN	z308100.1 Soares_papillary_thyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18665	31606	2.51	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5882	18668	31609	3.33	0.0E+00	BE260197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
5890	18675	31620	2.8	0.0E+00	BE888610.1	EST_HUMAN	601512630F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
5905	18690	31639	0.6	0.0E+00	AW752848.1	EST_HUMAN	IL3-CT02020-111169-028-E04 CT02020 Homo sapiens cDNA
5908	18692	31641	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product, synaptic vesicle protein 28 homolog (KIAA0735), mRNA
5908	18692	31642	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product, synaptic vesicle protein 28 homolog (KIAA0735), mRNA
5909	18693	31643	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3600200 5'
5909	18693	31644	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3600200 5'
5909	18693	31645	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3600200 5'
5923	25081	31601	10.05	0.0E+00	97859980	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
5928	18710	31684	1.2	0.0E+00	AA193508.1	EST_HUMAN	z40101.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:965605 5' similar to SW:YY06_HUMAN P42964 HYPOTHETICAL MYELOID CELL LINE PROTEIN 6. ;
5928	18710	31685	1.2	0.0E+00	AA193508.1	EST_HUMAN	z40101.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:965605 5' similar to SW:YY05_HUMAN P42964 HYPOTHETICAL MYELOID CELL LINE PROTEIN 6. ;
5948	18730	31689	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5948	18730	31690	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5977	18768	31732	0.99	0.0E+00	BE256330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:33555685 5'
5987	18768	31740	1.2	0.0E+00	BE166661.1	EST_HUMAN	QV0-HT0368-060200-099-409 HT0368 Homo sapiens cDNA
6007	18788	31750	0.85	0.0E+00	M38107.1	NT	Human neurofibromin type 1 (NF-1) mRNA, 3' end of cds
6040	18820	31781	1.32	0.0E+00	BE379007.1	EST_HUMAN	601236270F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:30048400 5'
6046	18826	31787	1.39	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6068	18945	31809	3.78	0.0E+00	U46982.1	NT	Human G protein-coupled receptor GPR-9-5 gene, complete cds
6064	18872	31830	4.82	0.0E+00	AA204740.1	EST_HUMAN	z681603.1 Strachey NT neuron (#63723) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN. ;
6095	18873	31840	3.97	0.0E+00	11545913	NT	Homo sapiens tylosyltransferase II (XT2), mRNA
6095	18873	31841	3.97	0.0E+00	11545913	NT	Homo sapiens tylosyltransferase II (XT2), mRNA
6120	18907	31875	1.14	0.0E+00	11426387	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6133	18911	31880	2.97	0.0E+00	BE257173.1	EST_HUMAN	601106632F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:23150622 5'
6147	18924		0.85	0.0E+00	A1688048.1	EST_HUMAN	189110.1 NCJ_GGAP_P228 Homo sapiens cDNA clone IMAGE:224839 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN. ;

Page 510 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6151	18928	31887	1.53	0.0E+00	U95830.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6159	18935	31903	1.22	0.0E+00	BE797385.1	EST_HUMAN	801587971F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3942329 5'
6159	18936	31904	1.22	0.0E+00	BE797385.1	EST_HUMAN	801587971F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3942329 5'
6170	18947	31919	0.57	0.0E+00	AI189025.1	EST_HUMAN	94505111x1 NCI CGAP Bim25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TRC12838 Q12838 TFIIC ALPHA SUBUNIT
6170	18947	31920	0.57	0.0E+00	AI189025.1	EST_HUMAN	94505111x1 NCI CGAP Bim25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TRC12838 Q12838 TFIIC ALPHA SUBUNIT
6172	18949	31921	0.85	0.0E+00	BF357123.1	EST_HUMAN	NR0-0170923-220800-102-505 HT10923 Homo sapiens cDNA
6180	18957	31931	1.08	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC51288), mRNA
6180	18958	31939	0.85	0.0E+00	D55840.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6207	18982	31961	1.03	0.0E+00	AW178142.1	EST_HUMAN	IL3-HIT0062-010569-014-A04 HT10002 Homo sapiens cDNA
6228	19002	31978	0.86	0.0E+00	BE674544.1	EST_HUMAN	740212x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN
6232	19006	31983	1.33	0.0E+00	7662038	NT	Q14881 HYPOTHETICAL PROTEIN KIAA0176
6246	19020		8.59	0.0E+00	AV65020.1	EST_HUMAN	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6254	19028	32003	3.13	0.0E+00	AW675598.1	EST_HUMAN	AV65020 GLC Homo sapiens cDNA clone GLCCAD09 3'
6257	19031	32006	6.26	0.0E+00	H01255.1	EST_HUMAN	UIHF-BLO-eco-g-12-0-ULx1 NIH_MGC 37 Homo sapiens cDNA clone IMAGE:3068751 3'
6266	19042	32019	1.6	0.0E+00	X15377.1	NT	Y27603 J1 Soares placenta N29-IP Homo sapiens cDNA clone IMAGE:149933 5'
6271	19044	32021	0.85	0.0E+00	AA456375.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6272	19045	32022	1.3	0.0E+00	AM12841.1	EST_HUMAN	ant1407 J1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:813252 5'
6278	19051	32028	4.71	0.0E+00	BE735989.1	EST_HUMAN	t576708x1 NCI CGAP O163 Homo sapiens cDNA clone IMAGE:2262887 3' similar to SW:NTCS_HUMAN
6278	19051	32029	4.71	0.0E+00	BE735989.1	EST_HUMAN	P33799 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2;
6282	19055	32035	0.86	0.0E+00	AW745593.1	EST_HUMAN	801305368F1 NIH_MGC 39 Homo sapiens cDNA clone IMAGE:3633618 5'
6282	19055	32036	0.86	0.0E+00	AW745593.1	EST_HUMAN	801305368F1 NIH_MGC 39 Homo sapiens cDNA clone IMAGE:3633618 5'
6282	19055	32036	0.86	0.0E+00	AW745593.1	EST_HUMAN	NR0-0170284-221159-002-411 BT0294 Homo sapiens cDNA
6283	19056		0.6	0.0E+00	U77629.1	NT	NR0-0170284-221159-002-411 BT0294 Homo sapiens cDNA
6285	19058	32038	15.59	0.0E+00	AL119245.1	EST_HUMAN	Homo sapiens Acheule-Scale homologue 2 (ASCL2) gene, complete cds
6285	19058	32039	15.59	0.0E+00	AL119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005390 5'
6289	19062	32044	0.8	0.0E+00	BE780453.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005390 5'
6290	19063	32045	1.12	0.0E+00	X62217.1	NT	601468712F1 NIH_MGC 67 Homo sapiens cDNA clone IMAGE:3871800 5'
6304	19076	32062	1.52	0.0E+00	AI689483.1	EST_HUMAN	Human gamma immunoglobulin heavy chain, variable region, (13-2)
6317	19088	32072	6.91	0.0E+00	BE283153.1	EST_HUMAN	wc2507x1 NCI CGAP G04 Homo sapiens cDNA clone IMAGE:2493220 3'
6317	19088	32073	6.91	0.0E+00	BE283153.1	EST_HUMAN	601105344F1 NIH_MGC 15 Homo sapiens cDNA clone IMAGE:2887683 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6395	19126	32119	0.98	0.0E+00	BF057438.1	EST_HUMAN	7K43N05.X1 NCL_GAP_OV18 Homo sapiens cDNA clone IMAGE:3478498 3' similar to TR-O14663 O14663 R31240.1
6398	19167	32167	1.89	0.0E+00	AW406348.1	EST_HUMAN	UHF-BL0-acc-h-02-Q-UL1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3056831 5'
6398	19167	32168	1.89	0.0E+00	AW406348.1	EST_HUMAN	UHF-BL0-acc-h-02-Q-UL1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3056831 5'
6418	19196	32184	0.79	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLEC Homo sapiens cDNA clone IMAGE:3056831 5'
6427	19195	32191	0.98	0.0E+00	BE808340.1	EST_HUMAN	601881150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3056831 5'
6427	19195	32192	0.98	0.0E+00	BE808340.1	EST_HUMAN	601881150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3056831 5'
6430	19198	32195	2.24	0.0E+00	AF190890.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
6433	19201	32197	1.17	0.0E+00	11420958	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6440	19208	32204	7.5	0.0E+00	AW163940.1	EST_HUMAN	600808.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR-O15390 O15390 GT24. [3] TR-O43940 TR-O43206
6440	19208	32205	7.5	0.0E+00	AW163940.1	EST_HUMAN	600808.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR-O15390 O15390 GT24. [3] TR-O43940 TR-O43206
6444	19212	32208	0.97	0.0E+00	W37163.1	EST_HUMAN	2520606.F1 Soares_fetal_lung_NH-L10W Homo sapiens cDNA clone IMAGE:3028226 5' similar to SW-ZN45 HUMAN Q02389 ZINC FINGER PROTEIN 45
6444	19212	32209	0.97	0.0E+00	W37163.1	EST_HUMAN	2520606.F1 Soares_fetal_lung_NH-L10W Homo sapiens cDNA clone IMAGE:3028226 5' similar to SW-ZN45 HUMAN Q02389 ZINC FINGER PROTEIN 45
6459	19228	32228	1.08	0.0E+00	BE794633.1	EST_HUMAN	60158937.F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6468	19233	32233	6.81	0.0E+00	BE790873.1	EST_HUMAN	60158937.F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6467	19234	32234	0.56	0.0E+00	BE790873.1	EST_HUMAN	QV1-GN0065-140800-318-H02 GN0065 Homo sapiens cDNA
6467	19234	32235	0.56	0.0E+00	BE790873.1	EST_HUMAN	QV1-GN0065-140800-318-H02 GN0065 Homo sapiens cDNA
6471	19238	32238	6.95	0.0E+00	BE886813.1	EST_HUMAN	60151205.F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6471	19238	32239	6.95	0.0E+00	BE886813.1	EST_HUMAN	60151205.F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6480	19247	32247	5.62	0.0E+00	L24483.1	NT	Human antigen CD27 gene, exons 1-2
6485	19252	32251	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6485	19252	32252	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6491	19258	32258	4.06	0.0E+00	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (spenn receptor) (ZP3A), mRNA
6494	19260	32261	4.78	0.0E+00	AL638412.1	EST_HUMAN	601511.L1 NCL_GAP_G08 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE
6495	19261	32262	1.36	0.0E+00	AL32832.1	NT	P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR
6507	19272	32273	4.12	0.0E+00	AA434584.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-4), mRNA, complete cds
6520	19286		0.99	0.0E+00	BF217200.1	EST_HUMAN	z65203.1 Soares_fetal_fetus_NH2H5_2w Homo sapiens cDNA clone IMAGE:773668 5'
6523	19289	32283	1.82	0.0E+00	BE925675.1	EST_HUMAN	601886317.F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6554	19319	32326	1.11	0.0E+00	11426739	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6554	19319	32328	1.11	0.0E+00	11426739	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6571	19335	32346	1.6	0.0E+00	AU125928.1	EST_HUMAN	AUT125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6573	19337	32348	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-280700-001-110 NN0174 Homo sapiens cDNA
6573	19337	32349	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-280700-001-110 NN0174 Homo sapiens cDNA
6594	19357	32371	1.87	0.0E+00	BE142383.1	EST_HUMAN	CMO-HT0143-270999-062-308 HT0143 Homo sapiens cDNA
6614	19377	32391	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-404 BN0121 Homo sapiens cDNA
6614	19377	32392	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-404 BN0121 Homo sapiens cDNA
6638	19400	32415	8.38	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-008 HT0520 Homo sapiens cDNA
6640	19402	32417	1.83	0.0E+00	BF085987.1	EST_HUMAN	IL5-GN0032-180900-145-407 GN0032 Homo sapiens cDNA
6679	19595	32633	3.49	0.0E+00	AA190755.1	EST_HUMAN	zp88603.t1 Stragene HeLa cell c3 937218 Homo sapiens cDNA clone IMAGE:527292 5'
6690	19607	32847	0.94	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6693	19610	32849	0.91	0.0E+00	BE071987.1	EST_HUMAN	7e49d07.t1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:322037 3' similar to TR-Q07285 QB2285
6703	19618	32860	6.99	0.0E+00	AJB40621.1	EST_HUMAN	TEKTN.;
6703	19618	32861	6.99	0.0E+00	AJB40621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6714	19623	32874	1.91	0.0E+00	11435928	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6726	19660	32952	0.99	0.0E+00	AL042443.1	EST_HUMAN	Homo sapiens CD8 antigen (CD8), mRNA
6729	19663	32955	0.9	0.0E+00	A118270.1	EST_HUMAN	DKFZp434D2021.t1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2021 5'
6734	19668	32960	0.83	0.0E+00	BE734087.1	EST_HUMAN	0010401.t1 Soares NSF F8 JW OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1565761 3' similar to
6752	17921	30556	1.88	0.0E+00	BE596381.1	EST_HUMAN	TR-029823 Q29823 TEKTN Cl.;
6761	17930	30565	11.84	0.0E+00	BE597899.1	EST_HUMAN	601597370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6761	17930	30566	11.84	0.0E+00	BE597899.1	EST_HUMAN	601597370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6761	17930	30566	11.84	0.0E+00	BE597899.1	EST_HUMAN	601439667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847897 5'
6761	17930	30566	11.84	0.0E+00	BE597899.1	EST_HUMAN	601439667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847897 5'
6790	19510	32535	2.2	0.0E+00	BE550182.1	EST_HUMAN	7e49d03.t1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
6790	19510	32538	2.2	0.0E+00	BE550182.1	EST_HUMAN	Q08379 GOLGIN-95.;
6790	19534	32562	1.26	0.0E+00	BR088376.1	EST_HUMAN	7e49d03.t1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
6790	19540	32568	2.48	0.0E+00	AA165108.1	EST_HUMAN	Q08379 GOLGIN-95.;
6803	19464		12.37	0.0E+00	11034810	NT	GM1-HT0877-090900-397-911 HT0877 Homo sapiens cDNA
							z24g03.t1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:665332 5'
							Homo sapiens catenilin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA

Page 513 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6805	19468	32487	1.08	0.0E+00	11431474	NT	Homo sapiens sodium channel, noninactivating 1, beta (Liddle syndrome) (SCNN1B), mRNA
6807	19468	32480	0.6	0.0E+00	BE313076.1	EST_HUMAN	801150682F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6807	19468	32481	0.6	0.0E+00	BE313075.1	EST_HUMAN	801150682F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6822	19483	32505	2.98	0.0E+00	BF586005.1	EST_HUMAN	802185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6837	19469		2.32	0.0E+00	J03059.1	NT	Human MYCL2 gene, complete cds
6845	19445	32573	3.82	0.0E+00	AF217288.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6845	19445	32574	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6846	19546	32575	1.18	0.0E+00	M38113.1	NT	Human neurofibromin type 1 gene, exon x3
6859	17935	30571	3.2	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6859	17936	30572	0.74	0.0E+00	AI419069.1	EST_HUMAN	ig53003x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN ;
6859	17936	30573	0.74	0.0E+00	AI419069.1	EST_HUMAN	ig53003x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN ;
6863	17940	30576	0.78	0.0E+00	BE259708.1	EST_HUMAN	80115515F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356330 5'
6874	17950	30546	0.58	0.0E+00	BE904685.1	EST_HUMAN	801468743F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3598739 5'
6884	17960	30514	1.05	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone IMAGE:1003879 5'
6887	17963	30518	8.08	0.0E+00	BE262941.1	EST_HUMAN	801148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
6888	17964	30519	2.26	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6888	17965	30520	2.26	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6889	17965	30521	3.28	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6889	17965	30522	3.28	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6894	17970	30527	1.05	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6890	19637	32681	1.03	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140906-223-01 NT0022 Homo sapiens cDNA
6904	19642	32687	2.37	0.0E+00	BF568006.1	EST_HUMAN	802185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6908	19646	32692	4.53	0.0E+00	U1976.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6913	19650	32698	0.79	0.0E+00	AW602362.1	EST_HUMAN	UHF-BR0p-aka-d-10-0-UL1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6913	19650	32697	0.79	0.0E+00	AW602362.1	EST_HUMAN	UHF-BR0p-aka-d-10-0-UL1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6922	19658	32704	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
6922	19658	32705	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
6929	19665	32711	5.87	0.0E+00	BF306906.1	EST_HUMAN	801889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123848 5'
6934	19669	32715	2.33	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A6) and (CDM) paralogous genes, complete cds
6972	19454	32474	1.18	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7008	19700	32754	0.65	0.0E+00	AB026983.1	NT	Homo sapiens mRNA for vesicular cadherin-2, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7008	19700	32755	0.65	0.0E+00	AB028893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7013	19705	32761	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7013	19705	32762	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7019	19711	32768	1.2	0.0E+00	AW94806.1	EST_HUMAN	EST366878 MAGC resequences, MAGC Homo sapiens cDNA
7020	19712	32769	0.9	0.0E+00	BE254103.1	EST_HUMAN	EST113958F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3354506 5'
7033	19725	32781	0.98	0.0E+00	U01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7041	19732	32791	0.84	0.0E+00	AB007593.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7041	19732	32792	0.84	0.0E+00	AB007593.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7047	19738	32799	2.73	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001556 5'
7062	19753	32818	0.55	0.0E+00	11428081	NT	Homo sapiens membrane protein GHI (GHI), mRNA
7064	19755	32820	0.59	0.0E+00	AA312125.1	EST_HUMAN	EST182818 Jurkat T-cells Y1 Homo sapiens cDNA 5' end
7069	19760		2.57	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AAT1 Homo sapiens cDNA clone Y79AAT1002365 5'
7070	19761	32825	0.84	0.0E+00	4758839	NT	Homo sapiens netrin 1 (NTN1), mRNA
7079	19770	32834	1.32	0.0E+00	BE891296.1	EST_HUMAN	001431818F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3917164 5'
7079	19770	32836	1.32	0.0E+00	BE891296.1	EST_HUMAN	001431818F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3917164 5'
7100	17981	30495	2.54	0.0E+00	AF137298.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7100	17981	30498	2.54	0.0E+00	AF137298.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7122	19810	32876	5.01	0.0E+00	11436950	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7122	19810	32877	5.01	0.0E+00	11436950	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7137	19824	32901	0.55	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform ae (CACNA1G) mRNA, complete cds
7186	19843	32911	37.67	0.0E+00	AI128344.1	EST_HUMAN	qc87a07.x1 Sources_pleocenta_8cdweeks_2NHP8030W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW/ARSD_HUMAN P51698 ARYL SULFATASE D PRECURSOR ;contains element HGR repetitive element;
7195	19843	32912	37.67	0.0E+00	AI128344.1	EST_HUMAN	qc87a07.x1 Sources_pleocenta_8cdweeks_2NHP8030W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW/ARSD_HUMAN P51698 ARYL SULFATASE D PRECURSOR ;contains element HGR repetitive element;
7195	19845	32914	0.95	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7195	19845	32915	0.95	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7161	19848	32918	4.95	0.0E+00	11428392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7161	19848	32919	4.95	0.0E+00	11428392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7163	19850		15.23	0.0E+00	BF337375.1	EST_HUMAN	802035089F1 NCI CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4182839 5'
7165	19852	32921	2.95	0.0E+00	AA128433.1	EST_HUMAN	zn00105.1 Striatagene muscle 837209 Homo sapiens cDNA clone IMAGE:562901 5' similar to TR:G806562 G806562 NEBULIN;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7170	18858	32927	0.7	0.0E+00	AL076497.1	EST_HUMAN	DKFZp434B0228_r1_434 (exon): Hs33 Homo sapiens cDNA clone DKFZp434B0228 5'
7170	18858	32928	0.7	0.0E+00	AL076497.1	EST_HUMAN	DKFZp434B0228_r1_434 (exon): Hs33 Homo sapiens cDNA clone DKFZp434B0228 5'
7208	18863	32969	1.09	0.0E+00	BE26499.1	EST_HUMAN	001174576f1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5'
7210	18865	32970	1	0.0E+00	11427968	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
7213	18868		1.42	0.0E+00	AU118007.1	EST_HUMAN	AU118007 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7214	18869	32973	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7214	18869	32974	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7226	18871	32984	0.87	0.0E+00	AF245005.1	NT	Homo sapiens adiclin mRNA, complete cds
7232	18877	32989	8.04	0.0E+00	X70172.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7234	18879	32991	8.51	0.0E+00	U45448.1	NT	Human P2X1 receptor mRNA, complete cds
7234	18879	32992	8.51	0.0E+00	U45448.1	NT	Human P2X1 receptor mRNA, complete cds
7247	19032	33007	0.96	0.0E+00	AW65603.1	EST_HUMAN	EST1368573 IMAGE resources, MAGD Homo sapiens cDNA
7249	18834	33009	0.96	0.0E+00	BE072445.1	EST_HUMAN	7400H08.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:3223167 3' similar to gb:M64611_rna1 IG
7250	19035	33010	2.52	0.0E+00	AW650516.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-JI REGION (HUMAN);
7273	19057	33033	0.57	0.0E+00	AF001543.1	EST_HUMAN	EST1362586 IMAGE resources, MAGA Homo sapiens cDNA
7273	19057	33034	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chondrosarcoma, S.C.) Homo sapiens cDNA clone kappa_200
7273	19057	33035	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chondrosarcoma, S.C.) Homo sapiens cDNA clone kappa_200
7292	19075		0.66	0.0E+00	M40354.1	NT	Human BTG3 protein homologous gene, complete cds
7293	19076	33053	0.98	0.0E+00	BE408283.1	EST_HUMAN	301302676f1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3837434 5'
7305	19088	33064	0.6	0.0E+00	AW402542.1	EST_HUMAN	UHF-8K0-ssg-p-07-q-07-r1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:3054824 5'
7322	20005		1.43	0.0E+00	R87430.1	EST_HUMAN	Ym88110_r1 Soames adult brain N264-H5567 Homo sapiens cDNA clone IMAGE:160051 5'
7328	20006						X63905.y1 NC1 CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578940 5' similar to TR-Q08050 Q08050
7328	20006	33063	1.88	0.0E+00	AW239326.1	EST_HUMAN	HNFRPH TRANSCRIPTION FACTOR GENESIS
7342	20023		1.31	0.0E+00	AU117553.1	EST_HUMAN	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001061 5'
7344	20025	33101	3.67	0.0E+00	11427193	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7396	20046	33125	0.58	0.0E+00	BF229235.1	EST_HUMAN	MRO-AN0083-270603-004-07 AN0083 Homo sapiens cDNA
7372	20052	33133	0.67	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7397	20075	33154	1.18	0.0E+00	BF300698.1	EST_HUMAN	301898232f1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7397	20075	33155	1.18	0.0E+00	BF300698.1	EST_HUMAN	301898232f1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7406	20083	33166	0.82	0.0E+00	AU118767.1	EST_HUMAN	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
7400	20133	33223	4.16	0.0E+00	A1792861.1	EST_HUMAN	cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone HNTBC_cn17405 random

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7460	20133	33224	4.16	0.0E+00	AI752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7535	20205	33301	1.83	0.0E+00	AF04205.1	NT	Homo sapiens dyxectin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7535	20205	33302	1.83	0.0E+00	AF04205.1	NT	Homo sapiens dyxectin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7543	20213	33313	1.14	0.0E+00	U74315.1	EST_HUMAN	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7557	20227	33330	1.1	0.0E+00	11417942	NT	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7570	20239	33343	2.28	0.0E+00	AW672785.1	EST_HUMAN	Homo sapiens some domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	bs01600.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG 002608 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT;
7596	20264	33360	1.97	0.0E+00	AI826504.1	EST_HUMAN	bs01600.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG 002608 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT;
7596	20254	33361	1.97	0.0E+00	AI826504.1	EST_HUMAN	bs01600.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823108 5' similar to SW:P101_PIG 002608 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT;
7596	20262	33370	1.51	0.0E+00	6912735	NT	wb17g05.x1 NCL_CGAP_9 Homo sapiens cDNA clone IMAGE:2305976 5' similar to TR:O75363 O75363 AIBC1;
7596	20265	33373	1.09	0.0E+00	N78128.1	EST_HUMAN	wb17g05.x1 NCL_CGAP_9 Homo sapiens cDNA clone IMAGE:2305976 5' similar to TR:O75363 O75363 AIBC1;
7604	20270	33377	5.87	0.0E+00	BF217903.1	EST_HUMAN	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7613	20279	33387	5.41	0.0E+00	AI120622.1	EST_HUMAN	z68905.x1 Source_fetal_lung NIH_L19W Homo sapiens cDNA clone IMAGE:28456 3'
7633	25117	33406	0.97	0.0E+00	AW06274.1	EST_HUMAN	601885465F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:4703729 5'
7633	25117	33407	0.97	0.0E+00	AW06274.1	EST_HUMAN	AU129622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
7636	20301	33419	6.26	0.0E+00	4501848	NT	cr42a09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42a09 3'
7643	20308	33416	1.13	0.0E+00	AV758467.1	EST_HUMAN	cr42a09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42a09 3'
7643	20309	33417	6.31	0.0E+00	BE739870.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7645	20309	33418	6.31	0.0E+00	BE739870.1	EST_HUMAN	AV758467 BM Homo sapiens cDNA clone BMTF6005 5'
7646	20310	33419	1.18	0.0E+00	6912461	NT	601563156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947385 5'
7646	20310	33420	1.18	0.0E+00	6912461	NT	601563156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947385 5'
7647	20311	33421	0.71	0.0E+00	AU120424.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1 (KIAA0705), mRNA
7647	20311	33422	0.71	0.0E+00	AU120424.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7680	20344	33456	1.81	0.0E+00	BE787810.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
							AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
							601461713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884288 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7680	20344	33457	1.81	0.0E+00	BE787610.1	EST_HUMAN	901481713F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884288 6'
7720	20384	33498	0.83	0.0E+00	W62873.1	EST_HUMAN	220010.1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338443 5'
7734	20388	33513	0.96	0.0E+00	AW402332.1	EST_HUMAN	UJHF-BKO-aid15-09-D-U1r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3053915 5'
7735	20400	33516	0.76	0.0E+00	AA760692.1	EST_HUMAN	nt213a08.a1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7735	20400	33516	0.76	0.0E+00	AA760692.1	EST_HUMAN	nt213a08.a1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7752	20448	33572	0.84	0.0E+00	AA133187.1	EST_HUMAN	AL133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 6'
7812	20507	33930	0.82	0.0E+00	BE513013.1	EST_HUMAN	601190347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
7824	20519	33945	1.13	0.0E+00	AA148781.1	EST_HUMAN	2201c06.r1 Stratagene colon (#637204) Homo sapiens cDNA clone IMAGE:568410 5'
7837	20532	33959	0.84	0.0E+00	BF026028.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 6'
7849	20544	33972	0.46	0.0E+00	AA017021.1	EST_HUMAN	2853H08.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:3060831 5'
7866	20561	33988	2.31	0.0E+00	BE739046.1	EST_HUMAN	601305558F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3839693 5'
7881	20576	33703	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7881	20576	33704	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7909	20604	33734	0.74	0.0E+00	AW674881.1	EST_HUMAN	6034002.Y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652 F17K2.26 PROTEIN.;
7909	20604	33735	0.74	0.0E+00	AW674881.1	EST_HUMAN	6034002.Y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652 F17K2.26 PROTEIN.;
7916	20611	33741	3.91	0.0E+00	AA397651.1	EST_HUMAN	2811004.r1 Stratagene scfzba brain S11 Homo sapiens cDNA clone IMAGE:728718 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
7918	20613	33742	1.41	0.0E+00	AW387131.1	EST_HUMAN	MR0-ST0031-081000-003-011 STD031 Homo sapiens cDNA
7921	20616	33744	0.73	0.0E+00	AB020681.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
7922	20617	33744	7.02	0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y78A1 Homo sapiens cDNA clone Y78A11000277 5'
7926	20621	33748	1.83	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7928	20621	33749	1.83	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7942	20637	33784	1.09	0.0E+00	W96278.1	EST_HUMAN	280501.r1 Soares fetal heart N1bH19W Homo sapiens cDNA clone IMAGE:350081 5'
7942	20637	33785	1.09	0.0E+00	W96278.1	EST_HUMAN	280501.r1 Soares fetal heart N1bH19W Homo sapiens cDNA clone IMAGE:350081 5'
7944	20638		0.89	0.0E+00	BF072098.1	EST_HUMAN	602163008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:0394128 5'
7946	20643		0.87	0.0E+00	AU134114.1	EST_HUMAN	AU134114 OVARG1 Homo sapiens cDNA clone OVARG1001288 5'
7962	20657	33782	0.96	0.0E+00	BF525684.1	EST_HUMAN	602060632F1 NCI CGAP Brn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7982	20687	33783	0.96	0.0E+00	BF525684.1	EST_HUMAN	602060632F1 NCI CGAP Brn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7992	20687	33813	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZ761P092.r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZ761P092 5'
7992	20687	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZ761P092.r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZ761P092 5'

Page 518 of 536
Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8035	20730		1.32	0.0E+00	BE877693.1	EST_HUMAN	601485254F1 NIH_MGC_80 Homo sapiens cDNA clone IMAGE:3887773 5'
8057	20751	33882	2.48	0.0E+00	AW500549.1	EST_HUMAN	UHF-9NG-adj-01-QJUL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077490 5'
8065	20759	33888	18.05	0.0E+00	AW157233.1	EST_HUMAN	au33008.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:000463 000463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE [1];
8082	20778	33906	0.88	0.0E+00	AW072395.1	EST_HUMAN	zaf12.x1 Scaevola_NFL_1 CGC_S1 Homo sapiens cDNA clone IMAGE:2567639 3' similar to contains element ORF repetitive element;
8099	20793	33924	1.09	0.0E+00	11421722	NT	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8102	20796	33927	1.07	0.0E+00	W01618.1	EST_HUMAN	zaf5603.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:294633 5'
8104	20798	33929	1.22	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928698 5'
8104	20798	33930	1.22	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928698 5'
8115	20800	33943	1.46	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8154	20849	33990	0.85	0.0E+00	A1967350.1	EST_HUMAN	q95c12.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN.;
8166	20859	33991	2.83	0.0E+00	BE974157.1	EST_HUMAN	7d7692.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278952 3' similar to TR:O95793 O95793 STAUFIN PROTEIN.;
8167	20861	33993	1.19	0.0E+00	A1965971.1	EST_HUMAN	W60810.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2432975 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR.;
8180	20874	34009	1.07	0.0E+00	BE863650.1	EST_HUMAN	601334760F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8180	20874	34010	1.07	0.0E+00	BE863650.1	EST_HUMAN	601334760F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8189	20883	34020	1.83	0.0E+00	11427236	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8189	20883	34021	1.83	0.0E+00	11427236	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8191	20885	34023	3.2	0.0E+00	AA403192.1	EST_HUMAN	z68802.r1 Scores total fetus_Nb2Hf9_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8191	20885	34024	3.2	0.0E+00	AA403192.1	EST_HUMAN	z68802.r1 Scores total fetus_Nb2Hf9_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8231	20926		4.63	0.0E+00	AA398511.1	EST_HUMAN	z73608.s1 Scores testis_NHT Homo sapiens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8240	20934	34071	0.55	0.0E+00	BE837693.1	EST_HUMAN	RC2-FN0094-12000-013-h07 FN0094 Homo sapiens cDNA
8241	20935	34072	1.17	0.0E+00	AW384874.1	EST_HUMAN	QV3-DT0045-221289-048-c07 DT0045 Homo sapiens cDNA
8241	20935	34073	1.17	0.0E+00	AW384874.1	EST_HUMAN	QV3-DT0045-221289-048-c07 DT0045 Homo sapiens cDNA
8260	20954	34092	1.88	0.0E+00	BE612588.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3556179 5'
8260	20954	34093	1.88	0.0E+00	BE612588.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3556179 5'
8275	20969	34110	1.52	0.0E+00	AL103209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8275	20969	34111	1.52	0.0E+00	AL103209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Page 519 of 536
Table 4

Single Exon Probe Expressed in Brain

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8286	20960	34120	1.3	0.0E+00	A894477.1	EST_HUMAN	wn33a11.x1 NCL CGAP_U4 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
8293	20987	34128	1.27	0.0E+00	AA902294.1	EST_HUMAN	na25d10.s1 NCL CGAP_C03 Homo sapiens cDNA clone IMAGE:982259 3' similar to TR:G1138434
8298	20992		0.50	0.0E+00	11416796	NT	G1138434 KIAA0187 PROTEIN.
8305	20999	34137	1.02	0.0E+00	AI580780.1	EST_HUMAN	hca4f11.x1 Score: fragment, status: NIH/NIH Homo sapiens cDNA clone IMAGE:2043117 3'
8308	21002		1.84	0.0E+00	BE900787.1	EST_HUMAN	601431238f1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916660 5'
8334	21027	34163	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.Spinne NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8334	21027	34164	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.Spinne NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34165	2.24	0.0E+00	4758895	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8335	21028	34166	2.24	0.0E+00	4758895	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8339	21032	34169	0.59	0.0E+00	U85084.1	NT	Human zinc finger protein (ZNF166), gene, exons 2 and 3
8339	21032	34170	0.59	0.0E+00	U85084.1	NT	Human zinc finger protein (ZNF166), gene, exons 2 and 3
8404	21097	34223	0.86	0.0E+00	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XI.alphas (partial) genes
8409	21102	34239	2.83	0.0E+00	X08922.1	NT	H.sapiens mRNA for gamma-glutamyltransferase
8409	21102	34240	2.83	0.0E+00	X08922.1	NT	H.sapiens mRNA for gamma-glutamyltransferase
8424	21117	34255	0.88	0.0E+00	U82679.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8465	21157	34300	0.88	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8465	21157	34301	0.88	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8468	21160	34303	2.28	0.0E+00	AU131671.1	EST_HUMAN	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3-3003016 5'
8463	21175	34320	0.85	0.0E+00	11426572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8487	21179		1.92	0.0E+00	AW513513.1	EST_HUMAN	hca4601.x1 NCL CGAP_U41 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4 RETRORVIRUS-RELATED POL. POLYPROTEIN (HUMAN).
8489	21181	34323	14.55	0.0E+00	D52850.1	EST_HUMAN	HUM034C002B Clontech human fetal brain polyA+ mRNA (#8535) Homo sapiens cDNA clone GEN:084C02
8520	21212	34356	4.04	0.0E+00	BE378495.1	EST_HUMAN	601234488f1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3003709 5'
8526	21216	34360	2.58	0.0E+00	AA410545.1	EST_HUMAN	283204.f1 Score: ovary tumor NIH/NIH Homo sapiens cDNA clone IMAGE:724062 5'
8528	21220		2.81	0.0E+00	BF313948.1	EST_HUMAN	60190057.f1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
8535	21227	34369	0.52	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (ILRB3), mRNA
8540	21232	34374	1.46	0.0E+00	AW136673.1	EST_HUMAN	UHH-B11-act-e-12-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8540	21232	34375	1.46	0.0E+00	AW136673.1	EST_HUMAN	UHH-B11-act-e-12-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'

Page 520 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8545	21237		0.49	0.0E+00	AI640180.1	EST_HUMAN	wa30b10.x1 NCL_CGAP_KH11 Homo sapiens cDNA clone IMAGE:2298579 3' similar to TR-O15044 O15044 KIAA0335.
8564	21250	34353	0.76	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250000-350-508 TN0141 Homo sapiens cDNA
8574	21266	34406	0.59	0.0E+00	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
8590	21272	34410	5.80	0.0E+00	BE260272.1	EST_HUMAN	601150035F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502836 5'
8593	21277	34414	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127694F1 NIH_MGC_59 Homo sapiens cDNA clone IMAGE:4284542 5'
8595	21277	34415	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127694F1 NIH_MGC_59 Homo sapiens cDNA clone IMAGE:4284542 5'
8595	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127694F1 NIH_MGC_59 Homo sapiens cDNA clone IMAGE:4284542 5'
8600	21282	34434	0.53	0.0E+00	AI458722.1	EST_HUMAN	8131h1.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2150049 3'
8626	21318	34460	0.86	0.0E+00	AL44670.1	EST_HUMAN	AL446770 Homo sapiens fetal brain (Starvick GS) Homo sapiens cDNA c80g02.s1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1902184 3' similar to gb:U39072.60S
8631	21323	34464	7.75	0.0E+00	AA062527.1	EST_HUMAN	RIBOSOMAL PROTEIN L7A (HUMAN);
8637	21328	34472	3.09	0.0E+00	10947037	NT	Homo sapiens ankryrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8637	21329	34473	3.09	0.0E+00	10947037	NT	Homo sapiens ankryrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8660	21352	34498	1.3	0.0E+00	Y11107.3	NT	Homo sapiens ITGB4 gene for Integrin beta 4 subunit, exons 3-41
8662	21354	34501	1.82	0.0E+00	BE278817.1	EST_HUMAN	6011568330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
8672	21364		1.91	0.0E+00	AV718377.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
8679	21371	34516	3.33	0.0E+00	AW337277.1	EST_HUMAN	wa75d07.x1 NCL_CGAP_Pari1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:U33587
8685	21377	34521	1.12	0.0E+00	AJ124051.1	EST_HUMAN	INTGGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
8761	21453	34601	1.05	0.0E+00	AJ140704.1	EST_HUMAN	AJ124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'
8771	21463	34610	0.86	0.0E+00	AB007923.1	NT	AJ140704 PLACE4 Homo sapiens cDNA clone PLACE400098 5'
8778	21468	34614	0.64	0.0E+00	R17132.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8778	21468	34615	0.64	0.0E+00	R17132.1	EST_HUMAN	y09b09.r1 Soares Infant brain IN1B Homo sapiens cDNA clone IMAGE:31674 5'
8780	21472	34617	4.43	0.0E+00	AW592233.1	EST_HUMAN	y09b09.r1 Soares Infant brain IN1B Homo sapiens cDNA clone IMAGE:31674 5'
8780	21472	34618	4.43	0.0E+00	AW592233.1	EST_HUMAN	h48a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835086 3'
8815	21507	34632	0.47	0.0E+00	AJ128804.1	EST_HUMAN	h48a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835086 3'
8827	21519	34664	1.04	0.0E+00	AV714764.1	EST_HUMAN	AJ128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'
8827	21519	34664	1.04	0.0E+00	AV714764.1	EST_HUMAN	AV714764 DGB Homo sapiens cDNA clone DGBAUA08 5'
8843	21535	34678	2.79	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814, s1 434 (synonym: hias3) Homo sapiens cDNA clone DKFZp434C1814 3'
8843	21535	34680	2.79	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814, s1 434 (synonym: hias3) Homo sapiens cDNA clone DKFZp434C1814 3'
8849	21540	34688	1.17	0.0E+00	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
8851	21542	34689	2.03	0.0E+00	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8858	21549	34696	0.65	0.0E+00	BF075505.1	EST_HUMAN	602139483F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274708 5'

Page 521 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8890	21551		0.8	0.0E+00	BF058289.1	EST_HUMAN	7K28603.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3478892 3' similar to TR:O38448 O38448 S GAG;
8889	21580	34720	3.87	0.0E+00	11422857	NT	Homo sapiens tumor protein p73 (TP73), mRNA
8898	21589	34728	1.19	0.0E+00	K01241.1	NT	Human Ig rearranged H-chain spliced-3 pseudogene, constant region
8905	21596	34737	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8906	21598	34738	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8910	21601	34744	1.79	0.0E+00	AV060736.1	EST_HUMAN	AV060739 GLC Homo sapiens cDNA clone GLCGRG12 3'
8916	21607	34750	2.88	0.0E+00	7706338	NT	Homo sapiens polyomavirus (PKOL), mRNA
8921	21612	34755	0.5	0.0E+00	BE703326.1	EST_HUMAN	801588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'
8922	21613	34756	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
8922	21613	34757	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
8934	21625		0.91	0.0E+00	H79897.1	EST_HUMAN	y403h08.t1 Soares fetal liver spleen T1NLS Homo sapiens cDNA clone IMAGE:232767 5'
8944	21635	34779	4.57	0.0E+00	BE315402.1	EST_HUMAN	801141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	801141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34795	0.48	0.0E+00	BE612721.1	EST_HUMAN	801452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
8954	21645	34798	0.49	0.0E+00	BE612721.1	EST_HUMAN	801452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
8957	21648		0.45	0.0E+00	M89986.1	NT	Human polymorphic cod in Xq28
8959	21650	34800	3.96	0.0E+00	X14766.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
8960	21670	34820	2.03	0.0E+00	A001595.1	EST_HUMAN	ar28a04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
8985	21675	34824	1.05	0.0E+00	A0954907.1	EST_HUMAN	w334et12.x1 NCL_CGAP_G03 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MG83_HUMAN
8988	21679	34828	4.05	0.0E+00	9258568	NT	O15480 MELANOMA-ASSOCIATED ANTIGEN B3
9000	21690	34840	1.42	0.0E+00	AW959311.1	EST_HUMAN	Homo sapiens proboscoidin alpha 6 (PODHA6), mRNA
9011	21701	34851	2.48	0.0E+00	9635487	NT	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9026	21718	34869	1.53	0.0E+00	AU142862.1	EST_HUMAN	Human endogenous retrovirus, complete genome
9028	21732	34897	1.76	0.0E+00	11434955	NT	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9043	21733		1.18	0.0E+00	BE410788.1	EST_HUMAN	801301676F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3036163 5'
9056	21745	34904	1.83	0.0E+00	BF002024.1	EST_HUMAN	7697h12.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:QBUH62
9070	21759	34920	1.1	0.0E+00	AB011190.1	NT	QBUH62 HYPOPHYSAL 42.6 KD PROTEIN
9071	21760	34921	7.72	0.0E+00	BE704823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9075	21764	34928	0.99	0.0E+00	BE810282.1	EST_HUMAN	801580294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9075	21764	34927	0.98	0.0E+00	BE810282.1	EST_HUMAN	RC3-PT0151-280600-011-c05 PT0151 Homo sapiens cDNA
9078	21767	34930	2.93	0.0E+00	AU138229.1	EST_HUMAN	RC3-PT0151-280600-011-c05 PT0151 Homo sapiens cDNA
							AU138229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'

Page 522 of 536
Table 4

Single Exon Probes Expressed in Brain

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9083	21772	34635	1.27	0.0E+00	BE883843.1	EST_HUMAN	801610247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911886 5'
9083	21772	34636	1.27	0.0E+00	BE883843.1	EST_HUMAN	801610247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911886 5'
9102	21790	34633	0.62	0.0E+00	AB011186.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
9106	21794	34657	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9106	21794	34658	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9164	21834	34696	1.13	0.0E+00	AW873498.1	EST_HUMAN	ba64408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:060275 O60275
9164	21834	34699	1.13	0.0E+00	AW873498.1	EST_HUMAN	ba64408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:060276 O60276
9198	21867	35031	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba69005.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOLISE);
9198	21867	35032	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba69005.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOLISE);
9209	22068	35280	1.61	0.0E+00	BF348013.1	EST_HUMAN	ba69005.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOLISE);
9244	21823	35093	2.77	0.0E+00	BE712515.1	EST_HUMAN	OY2-HT0688-250700-282-508 HT0688 Homo sapiens cDNA
9277	22031	35201	0.86	0.0E+00	BF034377.1	EST_HUMAN	801455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9277	22031	35202	0.86	0.0E+00	BF034377.1	EST_HUMAN	801455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9283	22037	35209	0.5	0.0E+00	A1806351.1	EST_HUMAN	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9286	22040	35211	0.81	0.0E+00		NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LLRB5), mRNA
9286	22040	35212	0.81	0.0E+00		NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LLRB5), mRNA
9296	21993	35137	1.5	0.0E+00	AL042278.1	EST_HUMAN	DKF7p343L120.T1 434 (synonym: hba3) Homo sapiens cDNA clone DKF7p343L120 5'
9331	21998	35171	1.28	0.0E+00	A1089043.1	EST_HUMAN	aw60101.x1 Soares NSF_F8_9W_OT_PA_P_51 Homo sapiens cDNA clone IMAGE:1661249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN, ;
9338	20409	33524	0.72	0.0E+00	BF309662.1	EST_HUMAN	801892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138068 5'
9340	20411	33527	2.51	0.0E+00		NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9340	20411	33528	2.51	0.0E+00	11660151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33531	9.86	0.0E+00	A1290909.1	EST_HUMAN	qmd0a06.x1 NCL_CGAP_L16 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9342	20413	33532	9.86	0.0E+00	A1290909.1	EST_HUMAN	qmd0a06.x1 NCL_CGAP_L16 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9343	20414	33533	1.96	0.0E+00	AW953936.1	EST_HUMAN	P28318 60S RIBOSOMAL PROTEIN L23A, ;
9370	21945	35117	3.07	0.0E+00	AF153496.1	NT	EST368028 MAYO cDNA ressequences, MAGC Homo sapiens cDNA
							Homo sapiens polygenic kidney disease 2-like protein (PKD2L) gene, exon 8

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9373	21948	35121	0.86	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912185 5'
9373	21948	35122	0.86	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912185 5'
9382	22044		7.32	0.0E+00	BE255829.1	EST_HUMAN	60110843F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350722 5'
9385	22047	35218	1.09	0.0E+00	BE781392.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9385	22047	35220	1.09	0.0E+00	BE781392.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9387	22049	35221	12.62	0.0E+00	AW163779.1	EST_HUMAN	88504.1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072
9409	22071	35243	2.98	0.0E+00	BE263191.1	EST_HUMAN	601145034F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9427	22105	35278	4.29	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9427	22105	35278	4.29	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9429	22107	35282	2.63	0.0E+00	BE746215.1	EST_HUMAN	601576883F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927648 5'
9439	22117	35292	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35293	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9459	22009	35179	1.44	0.0E+00	BE900549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9475	22128	35307	1.01	0.0E+00	AV701829.1	EST_HUMAN	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9489	22142	35321	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT25) gene, complete cds
9489	22142	35322	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT25) gene, complete cds
9522	22175	35389	0.84	0.0E+00	BE082977.1	EST_HUMAN	RC2-BT0842-130300-017-g01 BT0842 Homo sapiens cDNA
9541	22194	35378	1.74	0.0E+00	AW500263.1	EST_HUMAN	UHF-BN0-alk-B-12-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9541	22194	35380	1.74	0.0E+00	AW500263.1	EST_HUMAN	UHF-BN0-alk-B-12-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9550	22203	35388	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinase gene families
9550	22203	35387	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinase gene families
9552	22205	35388	0.89	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9552	22205	35389	0.89	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9561	22214	35400	0.54	0.0E+00	W58629.1	EST_HUMAN	z115a1.1 r1 Soares_fetal_liver_NHHT19W Homo sapiens cDNA clone IMAGE:340844 5'
9561	22214	35401	0.54	0.0E+00	W58629.1	EST_HUMAN	z115a1.1 r1 Soares_fetal_liver_NHHT19W Homo sapiens cDNA clone IMAGE:340844 5'
9572	22225	35410	1.83	0.0E+00	AB033336.1	NT	Homo sapiens mRNA for neurokin 1-alpha protein, complete cds
9576	22229		0.8	0.0E+00	A1124780.1	EST_HUMAN	ant50a11.x1 Johnson frontal cortex Homo sapiens cDNA clone IMAGE:1530548 3'
9578	22231		3.59	0.0E+00	AW500263.1	EST_HUMAN	UHF-BN0-alk-B-07-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077384 5'
9624	22277	35466	1.53	0.0E+00	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (p67) mRNA, partial cds

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9652	22304	35489	2.23	0.0E+00	S78498.1	NT	AI(IGF)=androgen-induced growth factor AI(IGF) [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9653	22304	35500	2.23	0.0E+00	S78498.1	NT	AI(IGF)=androgen-induced growth factor AI(IGF) [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9655	22307	35505	2.93	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_30 Homo sapiens cDNA clone IMAGE:398980 5'
9674	22326	35521	1.84	0.0E+00	AW365158.1	EST_HUMAN	CM2-C10311-301169-043-h11 C10311 Homo sapiens cDNA
9692	22343	35537	0.46	0.0E+00	11439432	NT	Homo sapiens multidomain (MIMRN), mRNA
9693	22344	35538	0.51	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
9702	22353	35548	0.54	0.0E+00	BE209710.1	EST_HUMAN	6026501.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:3984000 3'
9719	22370	35568	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9719	22370	35569	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9728	22379	35581	0.77	0.0E+00	AW506306.1	EST_HUMAN	UHF-EPop-ar-F08-D11.1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:3072897 5'
9733	22384	35586	9.08	0.0E+00	BE740480.1	EST_HUMAN	601395558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9733	22384	35587	9.08	0.0E+00	BE740480.1	EST_HUMAN	601395558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9734	22385	35588	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9734	22385	35589	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9747	22396	35603	1.73	0.0E+00	7662087	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
9765	22416	35623	1.59	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_11 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
9770	22421	35629	1.83	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_11 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2416 5'
9780	22431	35636	2.54	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9781	22432	35637	2.37	0.0E+00	AF152308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
9808	22459	35664	2.83	0.0E+00	AF090220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9808	22459	35665	2.83	0.0E+00	AF090220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9824	22475	35678	1.81	0.0E+00	BF092698.1	EST_HUMAN	MR4-TN0114-110900-101-404 TN0114 Homo sapiens cDNA
9854	22504	35704	2.41	0.0E+00	BE780793.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
9864	22514	35710	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9864	22514	35711	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9873	22523	35717	3.03	0.0E+00	AW236290.1	EST_HUMAN	x172801.x1 NCI CGAP_CML1 Homo sapiens cDNA clone IMAGE:2689677 3' similar to gb:202152_cds1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
9874	22524	35718	1.08	0.0E+00	A4341305.1	EST_HUMAN	EST146740 Fetal kidney II Homo sapiens cDNA 5' end
9904	22553	35748	0.97	0.0E+00	AW964113.1	EST_HUMAN	EST1376186 MAGE resequences, MAGE Homo sapiens cDNA
9915	22564	35769	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
9915	22564	35760	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9918	22567	35783	2.98	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR3 gene, exons 2, 3, and 4
9921	22569	35795	2.76	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9921	22569	35796	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9958	22804	35909	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9959	22804	35910	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9972	22820	35824	2.08	0.0E+00	AJ293844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9972	22820	35825	2.08	0.0E+00	AJ293844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9977	22825	35832	1.04	0.0E+00	AV95712.1	EST_HUMAN	AV95712 GKX Homo sapiens cDNA clone GKXDA07 5'
9977	22825	35833	1.04	0.0E+00	AV95712.1	EST_HUMAN	AV95712 GKX Homo sapiens cDNA clone GKXDA07 5'
9983	22831	35940	0.74	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR3 gene, exons 2, 3, and 4
9985	22833	35843	3.11	0.0E+00	AA106387.1	EST_HUMAN	25101.1.1 Src gene, human
10011	22858	35873	1	0.0E+00	AA131248.1	EST_HUMAN	25101.1.1 Src gene, human
10011	22859	35874	1	0.0E+00	AA131248.1	EST_HUMAN	25101.1.1 Src gene, human
10058	22704	35922	1.44	0.0E+00	AF179308.1	NT	Homo sapiens KIF4 (KIF4), mRNA, complete cds
10101	22749	35904	0.82	0.0E+00	BE800638.1	EST_HUMAN	801491565F1 NIH_MGC 80 Homo sapiens cDNA clone IMAGE:3893657 5'
10112	22760	35972	6.22	0.0E+00	BE730772.1	EST_HUMAN	801670772F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3846403 5'
10112	22760	35973	6.22	0.0E+00	BE730772.1	EST_HUMAN	801670772F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3846403 5'
10117	22765	35977	0.97	0.0E+00	AJ127403.1	EST_HUMAN	AU127403 NT26P2 Homo sapiens cDNA clone NT26P2001212 5'
10127	22775	35988	0.87	0.0E+00	BE958511.1	EST_HUMAN	801645134F1 NIH_MGC 86 Homo sapiens cDNA clone IMAGE:3830177 5'
10127	22775	35989	0.87	0.0E+00	BE958511.1	EST_HUMAN	801645134F1 NIH_MGC 86 Homo sapiens cDNA clone IMAGE:3830177 5'
10144	22792	36007	0.86	0.0E+00	BE997487.1	EST_HUMAN	801432317F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3891743 5'
10154	22802	36020	0.97	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells V1 Homo sapiens cDNA 5' end
10155	22803	36021	1.01	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells V1 Homo sapiens cDNA 5' end
10166	22814	36032	0.87	0.0E+00	BE891113.1	EST_HUMAN	Homo sapiens neuritin III (NRXIII), mRNA
10169	22817	36033	1.13	0.0E+00	BE891113.1	EST_HUMAN	801432228F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3817598 5'
10179	22827	36041	1.72	0.0E+00	AB022920.1	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10180	22828	36042	0.46	0.0E+00	BE304522.1	EST_HUMAN	Homo sapiens mRNA for actin binding protein ABP820, complete cds
10180	22828	36043	0.46	0.0E+00	BE304522.1	EST_HUMAN	801105450F1 NIH_MGC 15 Homo sapiens cDNA clone IMAGE:2887918 5'
10187	22835	36048	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	22835	36049	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10193	22841	36058	1.06	0.0E+00	AA704487.1	EST_HUMAN	216005.61 Scores, fetal liver, spleen, 1NFSL S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gbmM4123 cdt1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10196	22843	36057	0.74	0.0E+00	M22821.1	NT	Human beta 1.4-galactosyl-transferase mRNA, complete cds
10197	22845	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	802037045F1 NCI_OGAP_Bim64 Homo sapiens cDNA clone IMAGE:4184038 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10167	22845	36061	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCL_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4194639 5'
10222	22870	36062	0.83	0.0E+00	BE587149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3824578 5'
10222	22870	36063	0.83	0.0E+00	BE587149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3824578 5'
10262	22900	36110	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DGB Homo sapiens cDNA clone DGBBDC09 5'
10252	22900	36111	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DGB Homo sapiens cDNA clone DGBBDC09 5'
10282	22930	36143	2.36	0.0E+00	AI631818.1	EST_HUMAN	w336603.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR-Q61204
10282	22930	36144	2.36	0.0E+00	AI631818.1	EST_HUMAN	w336603.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR-Q61204
10288	22936	36149	0.49	0.0E+00	11545730	NT	Homo sapiens Glucocorticoid (GAV), mRNA
10298	22945	36150	1.52	0.0E+00	TO3078.1	EST_HUMAN	FB23A4 Fetal brain, Strategene Homo sapiens cDNA clone FB23A4 3' end
10323	22970	36180	0.64	0.0E+00	AJ122429.1	EST_HUMAN	AJ122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5'
10329	22976	36186	0.64	0.0E+00	6005821	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10348	22995	36214	2.5	0.0E+00	BF439218.1	EST_HUMAN	nib45e12.x1 Scores_NSF_F8_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3266271 3'
10349	22999	36214	0.67	0.0E+00	AV654765.1	EST_HUMAN	AV654765 GLG Homo sapiens cDNA clone GLG02C07 3'
10369	23015	36231	2.75	0.0E+00	AW517960.1	EST_HUMAN	xu74601.x1 NCL_CGAP_Ku8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M68088 MOESIN (HUMAN);
10374	23020	36236	8.82	0.0E+00	BE546213.1	EST_HUMAN	601078784F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464705 5'
10389	23035	36251	0.75	0.0E+00	11438005	NT	Homo sapiens hypothetical protein DKF72787P1010 (DKF72787P1010), mRNA
10414	23060	36279	2.79	0.0E+00	BE781742.1	EST_HUMAN	601467418F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3870700 5'
10435	23081	36307	1.9	0.0E+00	BE082720.1	EST_HUMAN	RC2-B10642-150200-012-403 BT0642 Homo sapiens cDNA
10435	23081	36308	1.9	0.0E+00	BE082720.1	EST_HUMAN	RC2-B10642-150200-012-403 BT0642 Homo sapiens cDNA
10442	23088	36316	0.66	0.0E+00	Y08032.1	NT	Homo endogenous retrovirus-K, LTR U5 and gag gene
10448	23094	36325	0.86	0.0E+00	AI656890.1	EST_HUMAN	it54e07.x1 NCL_CGAP_GCS Homo sapiens cDNA clone IMAGE:2244612 3'
10454	23100	36331	1.33	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10454	23100	36332	1.33	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10459	23105	36335	2.49	0.0E+00	BE817655.1	EST_HUMAN	60144172311 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845656 3'
10459	23105	36336	2.49	0.0E+00	BE817655.1	EST_HUMAN	60144172311 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845656 3'
10481	23127	36355	0.57	0.0E+00	H38905.1	EST_HUMAN	y01a10.r1 Scores_brest3NB-Het Homo sapiens cDNA clone IMAGE:186138 5'
10508	23154	36380	1.01	0.0E+00	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10510	23156	36382	0.45	0.0E+00	AF081384.1	NT	Synthetic construct CD300 ligand-ecdysin A fusion protein (CD300-ETA fusion) mRNA, partial cds
10519	23166	36392	1.02	0.0E+00	BE172254.1	EST_HUMAN	MRO-HT0559-270300-009-412 HT0559 Homo sapiens cDNA
10510	23165	36393	1.02	0.0E+00	BE172254.1	EST_HUMAN	MRO-HT0559-270300-009-412 HT0559 Homo sapiens cDNA
10532	23229	36463	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CUAKG05 5'

Page 527 of 536
Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10532	23229	36484	2.76	0.0E+00	AV711076.1	EST_HUMAN	AV711076 Cu Homo sapiens cDNA clone CUAAG05 6'
10534	23231		2.13	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-12020-015-403 ST0197 Homo sapiens cDNA
10542	23238	36472	7.02	0.0E+00	AW963563.1	EST_HUMAN	EST376538 MAGE resequencing, MAGE Homo sapiens cDNA
10555	23251	36487	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABCG1), member 3 (ABCG3), mRNA
10555	23251	36488	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABCG1), member 3 (ABCG3), mRNA
10559	23255	36492	2.09	0.0E+00	AW057821.1	EST_HUMAN	wy6109.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:25530065 3' similar to TRC060696 Q60565 VDX;
10567	23262	36489	1.6	0.0E+00	BE248270.1	EST_HUMAN	TCAAP3D0817 Pediatric acute myelogenous leukemia cell (FAB M1) Baylar-HIGSC project=TCAA Homo sapiens cDNA clone TCAAP08917
10568	23263	36500	2.85	0.0E+00	AW52239.1	EST_HUMAN	wb28at12.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10568	23263	36501	2.85	0.0E+00	AW52239.1	EST_HUMAN	wb28at12.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10573	23268	36506	1.54	0.0E+00	BF306842.1	EST_HUMAN	wb28at12.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10580	23275	36512	5.08	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10580	23275	36513	5.08	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10596	23290	36528	1.98	0.0E+00	AW404765.1	EST_HUMAN	UHF-BL-actin-d-04-U1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3056383 5'
10600	23294	36533	3.17	0.0E+00	11424826	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10601	23295	36534	7.47	0.0E+00	4504538	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10601	23295	36535	7.47	0.0E+00	4504538	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10602	23296	36536	3.68	0.0E+00	AW01827.1	EST_HUMAN	wb32603.x1 Soares_Dickgrafe_colon_NHGD Homo sapiens cDNA clone IMAGE:2521715 3'
10605	23298	36540	4.48	0.0E+00	BE682109.1	EST_HUMAN	6011605204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3606965 6'
10609	23303	36542	8.24	0.0E+00	BE861630.1	EST_HUMAN	6011434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3019638 6'
10612	23306	36544	1.66	0.0E+00	8923639	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10612	23306	36545	1.66	0.0E+00	8923639	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36551	1.4	0.0E+00	AB014908.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10619	23312	36552	1.4	0.0E+00	AB014908.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10628	23321	36559	1.31	0.0E+00	BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10631	18484	31403	1.65	0.0E+00	AA196505.1	EST_HUMAN	zp95b11.1 Stragelene muscle 937209 Homo sapiens cDNA clone IMAGE:627693 5' similar to gp-X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10632	23343	36561	5.53	0.0E+00	BE763408.1	EST_HUMAN	601588829F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3943015 5'
10660	23351	36568	1.79	0.0E+00	BE729706.1	EST_HUMAN	601562804F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10660	23351	36569	1.79	0.0E+00	BE729706.1	EST_HUMAN	601562804F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10661	23352	36560	33.89	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTG Homo sapiens cDNA clone HTCAHQ05 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10681	23352	36591	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH08 5'
10674	23365	36608	9.59	0.0E+00	AW516055.1	EST_HUMAN	xp04g10.x1 NCL CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852228 3' similar to gb:M60854.40S
10680	23371	36613	3.18	0.0E+00	AI135741.1	EST_HUMAN	RIBOSOMAL PROTEIN S18 (HUMAN); AI135741 PLACE1 Homo sapiens cDNA clone PLACE1002794 5'
10686	23377	36617	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13402.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10686	23377	36616	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13402.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10686	23377	36619	3.41	0.0E+00	AW593333.1	EST_HUMAN	hg13402.x1 Scores_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10688	23379	36620	1.80	0.0E+00	Z34897.1	NT	H.sapiens mRNA for H1 histamine receptor
10688	23380	36621	2.97	0.0E+00	F13090.1	EST_HUMAN	HSC3/C031 normalized infant brain cDNA Homo sapiens cDNA clone c-3ic03
10700	23391	36629	1.79	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10706	23396	36634	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10706	23396	36635	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10718	23407	36648	2.13	0.0E+00	AW338094.1	EST_HUMAN	xw6901.x1 NCL CGAP_Pent1 Homo sapiens cDNA clone IMAGE:2832085 3' similar to gb:X17116 IG MU CHAIN C REGION (HUMAN);
10719	23408	36649	4.62	0.0E+00	AW451230.1	EST_HUMAN	UHL-B13-eth-e-01-Q-U1 at NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10719	23408	36650	4.02	0.0E+00	AW451230.1	EST_HUMAN	UHL-B13-eth-e-01-Q-U1 at NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10721	13021		11.67	0.0E+00	4506832	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
10723	23411	36652	2.63	0.0E+00	AB014697.1	NT	Homo sapiens mRNA for KIAA0867 protein, partial cds
10738	23423	36670	1.96	0.0E+00	BE299448.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3026219 5'
10754	23439	36683	2.04	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
10763	23447		1.71	0.0E+00	AI124106.1	EST_HUMAN	AI124108 NT26M2 Homo sapiens cDNA clone NT26M2001075 5'
10771	23454	36687	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10771	23454	36688	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10776	23459	36702	4.04	0.0E+00	BE702155.1	EST_HUMAN	601198204F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3056339 5'
10777	23460		59.14	0.0E+00	BF084061.1	EST_HUMAN	602114045F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:3026332 5'
10778	23461	36703	1.3	0.0E+00	BE269288.1	EST_HUMAN	602118634Z1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544269 5'
10781	23464	36706	5.6	0.0E+00	AI118396.1	EST_HUMAN	AI118396 HEMBA1 Homo sapiens cDNA clone HEMBA1003488 5'
10786	23468	36710	8.55	0.0E+00	AI149808.1	EST_HUMAN	qf43c03.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1762772 3'
10786	23469	36711	6.53	0.0E+00	AI149808.1	EST_HUMAN	qf43c03.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1762772 3'
10787	23470	36712	3.04	0.0E+00	AW391937.1	EST_HUMAN	QV4-S102324-12108-032-508 ST0234 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10798	23481	36721	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10798	23481	36722	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10807	23490	36726	9.67	0.0E+00	11424726	NT	Homo sapiens insulin receptor (INSR), mRNA
10814	23497	36733	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM00093-170400-197-408 UM00093 Homo sapiens cDNA
10814	23497	36734	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM00093-170400-197-408 UM00093 Homo sapiens cDNA
10815	23498	36736	1.9	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCL CGAP_Bmd4 Homo sapiens cDNA clone IMAGE:4184679 5'
10817	23500	36738	52.94	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10821	23504	36743	2.37	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10824	23507	36746	1.60	0.0E+00	AB007932.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
10828	23510	36750	3.47	0.0E+00	U50326.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
10832	23514	36755	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
10832	23514	36756	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
10838	23520	36762	1.47	0.0E+00	W21828.1	EST_HUMAN	57E10 Human retina cDNA Tsp508H-cleaved subtilisin/Homo sapiens cDNA not directional
10854	23534	36779	136.91	0.0E+00	AA740782.1	EST_HUMAN	cd32e07.51 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1328412 3' similar to contains element MSR1 repetitive element:
10857	23537	36783	2.05	0.0E+00	AW46822.1	EST_HUMAN	hcd404.41 NCL CGAP_Kid1 Homo sapiens cDNA clone IMAGE:282756 3'
10863	23543	36790	2.91	0.0E+00	AF262303.1	NT	Homo sapiens signalling lymphocyte activation molecule (SLAM) gene, exon 2
10879	23559	36806	7.34	0.0E+00	CO5086.1	EST_HUMAN	CO5089 Human heart cDNA (YNAKamura) Homo sapiens cDNA clone 3NH04817
10886	23566	36814	2.31	0.0E+00	AA746376.1	EST_HUMAN	cd56h01.11 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10886	23568	36815	2.31	0.0E+00	AA746376.1	EST_HUMAN	cd56h01.11 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36825	3.74	0.0E+00	M78448.1	EST_HUMAN	EST100596 Fetal brain, Striatum (cat#83206) Homo sapiens cDNA clone HFBCC28
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	EST100596 Fetal brain, Striatum (cat#83206) Homo sapiens cDNA clone HFBCC28
10898	23578	36827	0.82	0.0E+00	AL157008.1	EST_HUMAN	DKFZ761J2116.11 761 (synonym: hanny2) Homo sapiens cDNA clone DKFZ761J2116 5'
10910	23590	36836	5.81	0.0E+00	AU118985.1	EST_HUMAN	AU118988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
10924	23604	36853	1.64	0.0E+00	AV603656.1	EST_HUMAN	AV603656 GKX Homo sapiens cDNA clone GKXCN03 5'
10932	23612	36862	2.08	0.0E+00	BF368553.1	EST_HUMAN	IL3-NT0104-200500-143-407 NT0104 Homo sapiens cDNA
10955	18389	31311	2.73	0.0E+00	AB035286.1	NT	Homo sapiens mRNA for neuritin II, complete cds
10955	18390	31312	2.73	0.0E+00	AB035286.1	NT	Homo sapiens mRNA for neuritin II, complete cds
10960	23636	36887	2.84	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0845-080500-002-E08 HT0845 Homo sapiens cDNA
10960	23636	36888	2.84	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0845-080500-002-E08 HT0845 Homo sapiens cDNA
10961	23637		1.4	0.0E+00	AV701152.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAD06 5'
10980	23655	36908	4.07	0.0E+00	BE869423.1	EST_HUMAN	60143092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10889	23683	36919	1.85	0.0E+00	AW500307.1	EST_HUMAN	U1HF-BNO- <i>alg-4</i> -02-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10890	23683	36920	1.85	0.0E+00	AW500307.1	EST_HUMAN	U1HF-BNO- <i>alg-4</i> -02-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10892	23686	36923	2.39	0.0E+00	BE018293.1	EST_HUMAN	b27604.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048488 5' similar to gb:Y00345 cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X96553 M.musculus mRNA for poly(A) binding protein (MOUSE);
11016	23688	36949	1.77	0.0E+00	BF528907.1	EST_HUMAN	G02043377F1 NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36950	1.77	0.0E+00	BF528907.1	EST_HUMAN	G02043377F1 NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36951	1.77	0.0E+00	BF528907.1	EST_HUMAN	G02043377F1 NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11028	25133	36964	1.27	0.0E+00	AW337766.1	EST_HUMAN	MR4-ST0118-041089-010-A12 ST0118 Homo sapiens cDNA
11028	25133	36965	1.27	0.0E+00	AW337766.1	EST_HUMAN	MR4-ST0118-041089-010-A12 ST0118 Homo sapiens cDNA
11034	23705	36973	1.53	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
11035	23706	36974	8.73	0.0E+00	BE597963.1	EST_HUMAN	G0144046F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11037	23706	36977	1.89	0.0E+00	AL468646.1	EST_HUMAN	ac86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11037	23706	36978	1.89	0.0E+00	AL468646.1	EST_HUMAN	ac86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11051	23721	36992	2.76	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434L0120 5'
11083	23765	37028	1.61	0.0E+00	10880062	NT	Homo sapiens gephyrin (GPH), mRNA
11085	23765	37031	3.98	0.0E+00	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11085	23765	37032	2.87	0.0E+00	BF206591.1	EST_HUMAN	G01870802F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11091	23761	37036	12.22	0.0E+00	AW207734.1	EST_HUMAN	U1H-B12- <i>aga-1</i> -01-0-U1r1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11098	23766	37040	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23766	37041	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23766	37043	2.89	0.0E+00	BE200846.1	EST_HUMAN	b24407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B 68KDA-ASSOCIATED PROTEIN ;
11098	23768	37044	2.89	0.0E+00	BE200846.1	EST_HUMAN	b24407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B 68KDA-ASSOCIATED PROTEIN ;
11110	23780	37055	1.9	0.0E+00	11628409	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
11124	23783	37069	1.82	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11127	20052	33133	1.6	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-4), mRNA, complete cds
11131	23786	37074	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-H04 HT0230 Homo sapiens cDNA
11131	23786	37075	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-H04 HT0230 Homo sapiens cDNA
11164	23821	37101	1.88	0.0E+00	AW673469.1	EST_HUMAN	b24408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275 KIAA0832 PROTEIN ;
11154	23821	37102	1.96	0.0E+00	AW673469.1	EST_HUMAN	b24408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275 KIAA0832 PROTEIN ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11327	24018	37321	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC.7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B-55KDA-ASSOCIATED PROTEIN.;
11327	24018	37322	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC.7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B-55KDA-ASSOCIATED PROTEIN.;
11329	24020	37324	3.88	0.0E+00	AW753028.1	EST_HUMAN	QV0-CT0225-101298-071-406 CT0225 Homo sapiens cDNA
11334	24025		3.08	0.0E+00	AA568707.1	EST_HUMAN	h42008.s1 NCL CGAP_P44 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M65178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11335	18000	30623	3.84	0.0E+00	AB24954.1	EST_HUMAN	w205098.x1 NCL CGAP_K412 Homo sapiens cDNA clone IMAGE:2404094 3'
11336	24026	37330	7.45	0.0E+00	AW327895.1	EST_HUMAN	ba02608.x1 NIH_MGC.3 Homo sapiens cDNA clone IMAGE:2846919 5'
11355	25134	37345	1.89	0.0E+00	AW282770.1	EST_HUMAN	UHH-BW0-dj-07-Q-U1.s1 NCL CGAP_Sub01 Homo sapiens cDNA clone IMAGE:2729609 3'
11362	23173	36401	2.2	0.0E+00	4759827	NT	Homo sapiens neuron III (NRXN3) mRNA
11366	23575	37278	1.73	0.0E+00	BE264088.1	EST_HUMAN	601113903.F1 NIH_MGC.18 Homo sapiens cDNA clone IMAGE:3354600 5'
11371	23578	37278	1.74	0.0E+00	BE365009.2	EST_HUMAN	601165908.R1 NIH_MGC.70 Homo sapiens cDNA clone IMAGE:3885616 3'
11371	23578	37279	1.74	0.0E+00	BE365009.2	EST_HUMAN	IL5-H10731-020500-077-405 H10731 Homo sapiens cDNA
11372	23579	37280	4.52	0.0E+00	BE185666.1	EST_HUMAN	UHH-BW1-ami-a-06-Q-U1.s1 NCL CGAP_Sub07 Homo sapiens cDNA clone IMAGE:3071121 3'
11373	23580	37294	1.29	0.0E+00	BF513900.1	EST_HUMAN	DKFZp434G178.J1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434G178 5'
11387	23583	37295	7.81	0.0E+00	AL048540.1	EST_HUMAN	DKFZp434G178.J1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434G178 5'
11387	23583	37295	7.81	0.0E+00	AL048540.1	EST_HUMAN	w163g03.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452468 3' similar to gb:537431 LAMININ RECEPTOR (HUMAN);
11397	24003	37306	5.89	0.0E+00	AB23118.1	EST_HUMAN	nc11507.s1 NCL CGAP_GC31 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13886
11401	24050	37353	3.42	0.0E+00	AA760913.1	EST_HUMAN	nc11507.s1 NCL CGAP_GC31 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13886
11401	24050	37354	3.42	0.0E+00	AA760913.1	EST_HUMAN	Q13906 ALKB HOMOLOG PROTEIN.;
11405	24055	37360	1.94	0.0E+00	BE910546.1	EST_HUMAN	601501090.F1 NIH_MGC.70 Homo sapiens cDNA clone IMAGE:3802928 5'
11416	23183	38413	7.9	0.0E+00	BE976347.1	EST_HUMAN	727112.x1 NCL CGAP_CL1 Homo sapiens cDNA clone IMAGE:3285919 3' similar to TR:000409 000409 CHECKPOINT SUPPRESSOR 1.1;
11419	23186	38416	1.79	0.0E+00	BE915698.1	EST_HUMAN	601276335.F1 NIH_MGC.39 Homo sapiens cDNA clone IMAGE:3611144 5'
11419	23186	38417	1.79	0.0E+00	BE915698.1	EST_HUMAN	601276335.F1 NIH_MGC.39 Homo sapiens cDNA clone IMAGE:3611144 5'
11426	23193	38424	1.91	0.0E+00	AV757420.1	EST_HUMAN	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
11457	24061	37367	1.52	0.0E+00	Y18900.1	NT	Human endogenous retrovirus type K (HIV-K), gag, pol and env genes
11461	24064	37370	10.31	0.0E+00	L39891.1	NT	Homo sapiens polyoma kidney disease-associated protein (PKD1) gene, complete cds
11461	24064	37371	10.31	0.0E+00	L39891.1	NT	Homo sapiens polyoma kidney disease-associated protein (PKD1) gene, complete cds
11476	24077	37387	4.99	0.0E+00	AU138211.1	EST_HUMAN	AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11461	24092	37404	1.92	0.0E+00	BE023317.1	EST_HUMAN	80141108F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11518	24118	37428	1.42	0.0E+00	AB030634.1	EST_HUMAN	1094410.35 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11529	24129	37434	13.79	0.0E+00	BE748889.1	EST_HUMAN	80157218F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11539	24139	37436	13.79	0.0E+00	BE748898.1	EST_HUMAN	80157218F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11539	24139	37447	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYR01 Homo sapiens cDNA clone THYR01001398 5'
11539	24139	37448	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYR01 Homo sapiens cDNA clone THYR01001398 5'
11542	24142	37451	2.08	0.0E+00	AW006022.1	EST_HUMAN	w28110.1x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566228 3' similar to WP-F53H10.2 CE211040 ZINC FINGER, C2H2 TYPE:
11546	25135	37455	3.49	0.0E+00	BF002383.1	EST_HUMAN	7h22b10.1x1 NCL CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3316999 3' similar to TRQ13458 Q13458 TRIO.:
11571	24170	37485	2.88	0.0E+00	AW381776.1	EST_HUMAN	MR4-ST0118-261098-012-b03 ST0118 Homo sapiens cDNA
11571	24170	37486	2.88	0.0E+00	AW381776.1	EST_HUMAN	MR4-ST0118-261098-012-b03 ST0118 Homo sapiens cDNA
11582	24181	37521	2.41	0.0E+00	AW863777.1	EST_HUMAN	MR3-SN0010-310300-107-b03 SN0010 Homo sapiens cDNA
11601	24200	37521	4.76	0.0E+00	11435244	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11601	24200	37522	4.76	0.0E+00	11435244	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11608	24206	37529	5.87	0.0E+00	U36253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 6
11612	24210	37533	2.29	0.0E+00	BE379254.1	EST_HUMAN	80123789F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806623 5'
11612	24210	37534	2.29	0.0E+00	BE379254.1	EST_HUMAN	80123789F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806623 5'
11632	24229	37553	2.22	0.0E+00	BE794768.1	EST_HUMAN	80156058F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3844708 5'
11634	24231	37554	45.09	0.0E+00	BE879633.1	EST_HUMAN	80149182F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3894220 5'
11640	24237	37560	1.02	0.0E+00	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11640	24237	37561	1.02	0.0E+00	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11644	24241	37566	1.85	0.0E+00	AF035453.1	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11646	24243	37567	1.56	0.0E+00	AL163204.2	NT	Homo sapiens chromocorne 21 segment HSZ1C004
11653	24250	37572	14.06	0.0E+00	BE409993.1	EST_HUMAN	801289403F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:3829544 5'
11654	24251	37573	1.46	0.0E+00	BE148930.1	EST_HUMAN	MR0-HT0241-169500-011-02 HT0241 Homo sapiens cDNA
11655	24252	37574	2.90	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11655	24252	37575	2.90	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30878	1.26	0.0E+00	D28535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11657	18187	30878	1.26	0.0E+00	D28535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37576	5.6	0.0E+00	BF681041.1	EST_HUMAN	80215572F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11658	24264	37577	5.6	0.0E+00	BF681041.1	EST_HUMAN	80215572F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11882	24298		1.93	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11884	17806	30683	1.5	0.0E+00	AF272683.1	NT	Homo sapiens gephyrin mRNA, complete cds
11887	24322	37588	1.71	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP400028 5'
11870	24285	37588	1.35	0.0E+00	BE903372.1	EST_HUMAN	601676337F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3958935 5'
11887	24282	37604	2.5	0.0E+00	X51755.1	NT	Human lamda-immunoglobulin constant region complex (germline)
11887	24282	37605	2.5	0.0E+00	X51755.1	NT	Human lamda-immunoglobulin constant region complex (germline)
11728	26130		15.74	0.0E+00	BF308120.1	EST_HUMAN	60168034F1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:4131416 5'
11728	24330	37654	11.96	0.0E+00	BE207175.1	EST_HUMAN	60117740F1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:3632868 5'
11751	24342	37671	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3637222 5'
11751	24342	37672	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3637222 5'
11757	24348	37678	1.43	0.0E+00	BE257612.1	EST_HUMAN	60113009F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3353378 5'
11757	24348	37679	1.43	0.0E+00	BE257612.1	EST_HUMAN	60113009F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3353378 5'
11755	24375	37705	1.68	0.0E+00	BE257698.1	EST_HUMAN	60114240F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3955378 5'
11750	24380	37710	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-5T0348-151298-001-c11 BT0348 Homo sapiens cDNA
11790	24380	37711	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-5T0348-151298-001-c11 BT0348 Homo sapiens cDNA
11792	24382	37713	2.23	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0166-271198-005-g03 HT0166 Homo sapiens cDNA
11792	24382	37714	2.23	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0166-271198-005-g03 HT0166 Homo sapiens cDNA
11797	24387	37720	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
11797	24387	37721	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
11806	14046		1.31	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11821	16891	31659	2.45	0.0E+00	U07223.1	NT	Human beta2-chimerin mRNA, complete cds
11822	24407	37741	5.04	0.0E+00	Z31706.1	NT	H. sapiens GLAST1 gene for galial glutamate transporter, exon6
11835	24419	37760	2.26	0.0E+00	A965185.1	EST_HUMAN	133902.x1 NC1 CGAP GC8 Homo sapiens cDNA clone IMAGE:2243067 3' similar to SW.GG2G_HUMAN
11837	24421	37762	2.31	0.0E+00	AU132394.1	EST_HUMAN	P51059 G2MTOTIC-SPECIFIC CYCLIN G1 ;
11879	25369	30800	2.27	0.0E+00	BE312542.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
11863	25267		3.89	0.0E+00	AU100963.1	EST_HUMAN	601150023F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:3303020 5'
11802	24468		1.6	0.0E+00	AB011389.1	NT	gel17b12.x1 Soares fetal lung, NIH 19W Homo sapiens cDNA clone IMAGE:1736231 3'
11821	24488		4.9	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-6, complete cds
11829	24489		4.1	0.0E+00	11417892	NT	Homo sapiens chromosome 21 segment HS21C046
11947	24501		3.05	0.0E+00	5802973	NT	Homo sapiens caldesmon binding protein 1 (KIA0330), mRNA
11882	25218	30816	2.59	0.0E+00	AF240788.1	NT	Homo sapiens anticodet protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
11893	25226		5.59	0.0E+00	AL041631.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							DKFZp434K0819.t1 434 (synonym: htecs) Homo sapiens cDNA clone DKFZp434K0819 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12016	25399		3.12	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12023	24551		3.91	0.0E+00	AL046544.1	EST_HUMAN	DKFZ434G218.1 134 (synonym: hnc3) Homo sapiens cDNA clone DKFZ434G218.5
12037	25261		1.68	0.0E+00	AI03497.1	EST_HUMAN	IL-BT030-271088-001 BT030 Homo sapiens cDNA
12076	25390		1.52	0.0E+00	N64484.1	EST_HUMAN	y40608.81 Source fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:248222 3' similar to SW-POL_BAEVM P10272 POL POLYPROTEIN ;
12089	24594		5.85	0.0E+00	AF106556.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
12092	13593	28282	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12092	13593	28283	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12100	25284		2.21	0.0E+00	10082587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12129	13318		2.04	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12218	26198	30814	2.83	0.0E+00	AW59082.1	EST_HUMAN	ig31606.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2847234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element ;
12229	25246		1.34	0.0E+00	BE080210.1	EST_HUMAN	RC8-BT0711-203300-011-D08 BT0711 Homo sapiens cDNA
12273	25258		4.43	0.0E+00	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12308	24732		3.39	0.0E+00	9835487	NT	Human endogenous retrovirus, complete genome
12351	25252		2.41	0.0E+00	AI204914.1	EST_HUMAN	an05804.x1 Strategene echino brain S11 Homo sapiens cDNA clone IMAGE:1884750 3'
12383	24778		1.68	0.0E+00	AI204914.1	EST_HUMAN	an05804.x1 Strategene echino brain S11 Homo sapiens cDNA clone IMAGE:1884750 3'
12406	14718	27436	1.81	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12405	14718	27437	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12423	24789	31039	2.08	0.0E+00	AF036395.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12435	14424	27119	2.76	0.0E+00	H30132.1	EST_HUMAN	Homo sapiens calcineurin-3 (CAV3) mRNA, complete cds
12435	14424	27120	2.76	0.0E+00	H30132.1	EST_HUMAN	y55908.1 Source breast 3N18-Bst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089
12446	24818		10.96	0.0E+00	D50850.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12448	24818	31020	2.61	0.0E+00	11418180	NT	Human gamma-cytoplasmic actin (ACTG3P) pseudogene
12448	24818	31021	2.51	0.0E+00	11418180	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12464	14817	27649	1.83	0.0E+00	4758469	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12502	24859		1.5	0.0E+00	AW064998.1	EST_HUMAN	h88008.x1 Source NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:29797154 3'
12538	13683	20617	2.09	0.0E+00	8622693	NT	Homo sapiens hypothetical protein FLJ10867 (FLJ10867), mRNA
12544	24884		1.88	0.0E+00	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12593	10099	28718	4.24	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12576	17908	30582	3.06	0.0E+00	6806819	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12582	24605		2.12	0.0E+00	AB022600.1	NT	Homo sapiens CST gene for ceratoidosis sulfotransferase, exon 1, 2, 3, 4, 5
12622	24927	31008	2.06	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
12648	25410		2.06	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment H6210046
12654	13300	26021	2.77	0.0E+00	6806819	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12729	24999	30972	1.6	0.0E+00	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIA0330), mRNA
12735	25004		4	0.0E+00	767020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
12760	25042	30987	1.76	0.0E+00	AW025032.1	EST_HUMAN	w68c07 x1 NCI CGAP K63 Homo sapiens cDNA clone IMAGE2627599.3 similar to TRQ12844 Q12844
12808	13890	26550	1.37	0.0E+00	9906844	NT	BREAKPOINT CLUSTER REGION PROTEIN contains TAR1.8 TAR1 repetitive element;
12818	25251		1.39	0.0E+00	AF083824.1	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
							Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 8

1/10

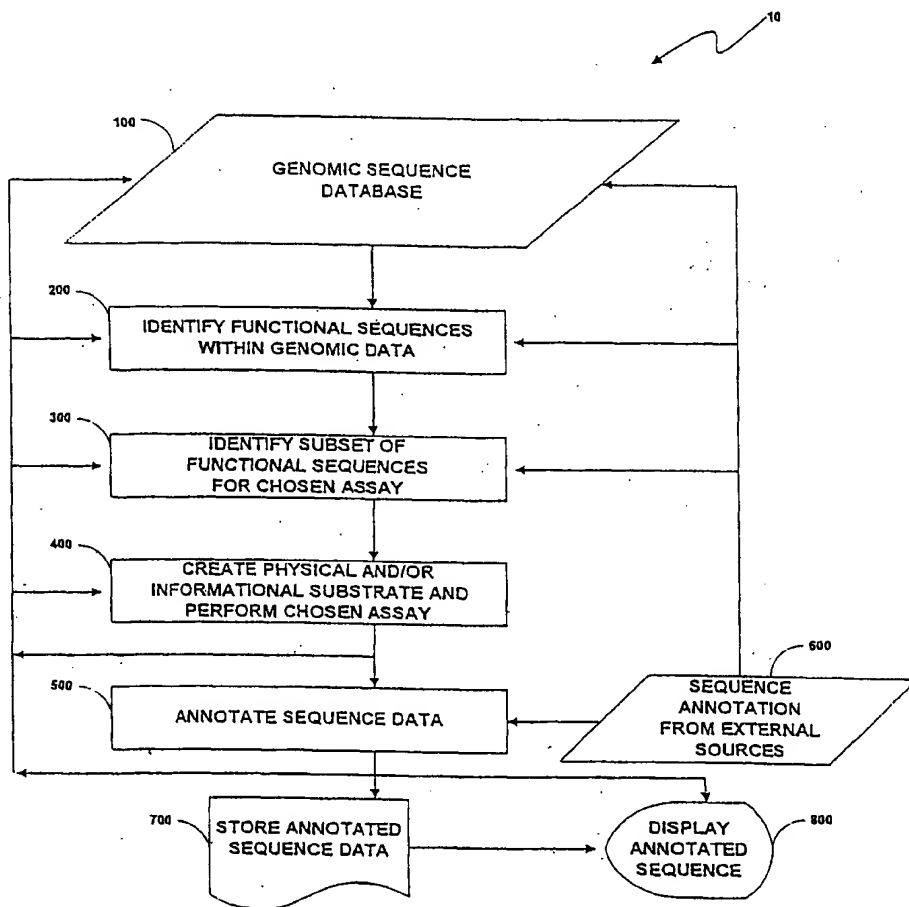


Fig. 1

2/10

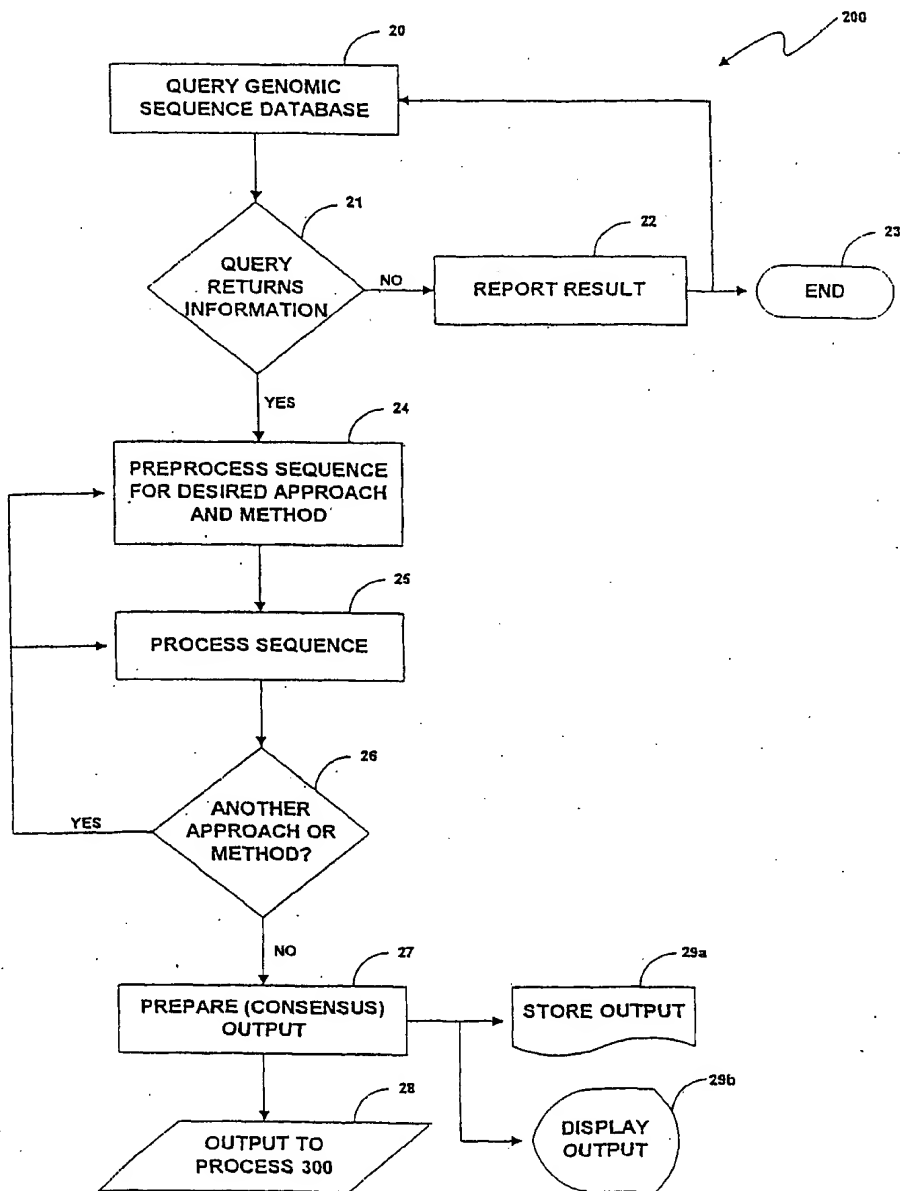


Fig. 2

3/10

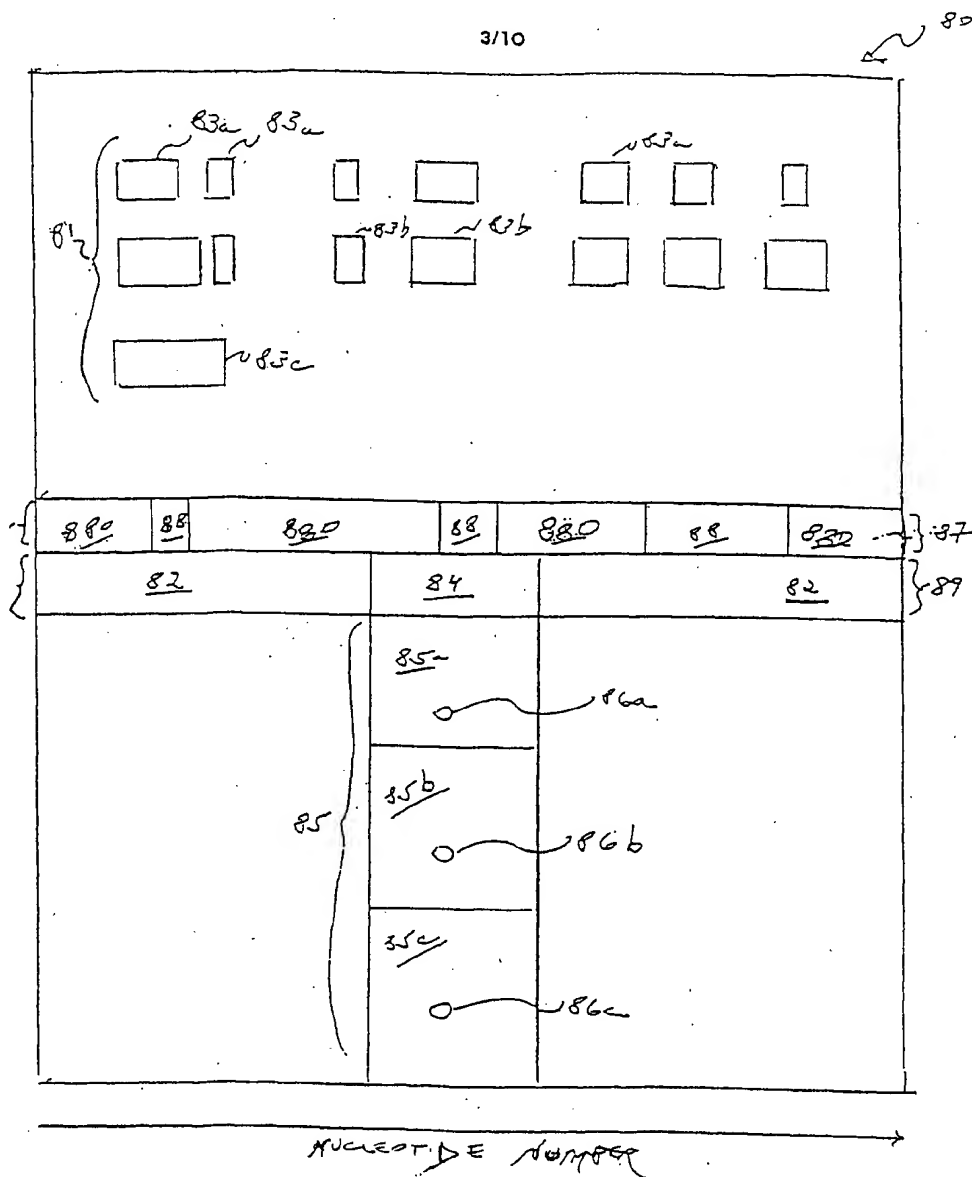


Fig. 3

4/10

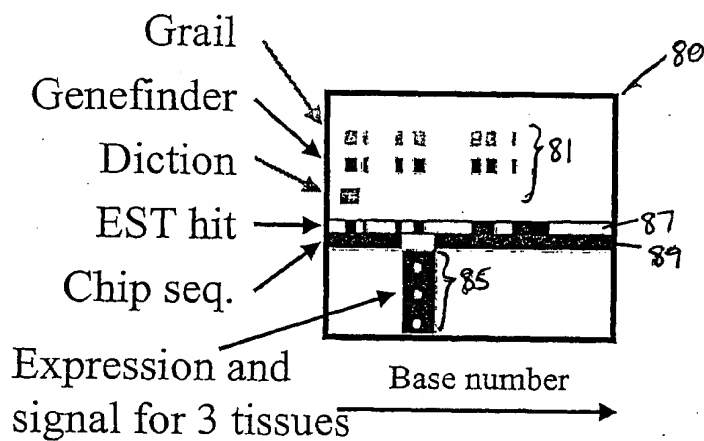


Fig. 4

5/10

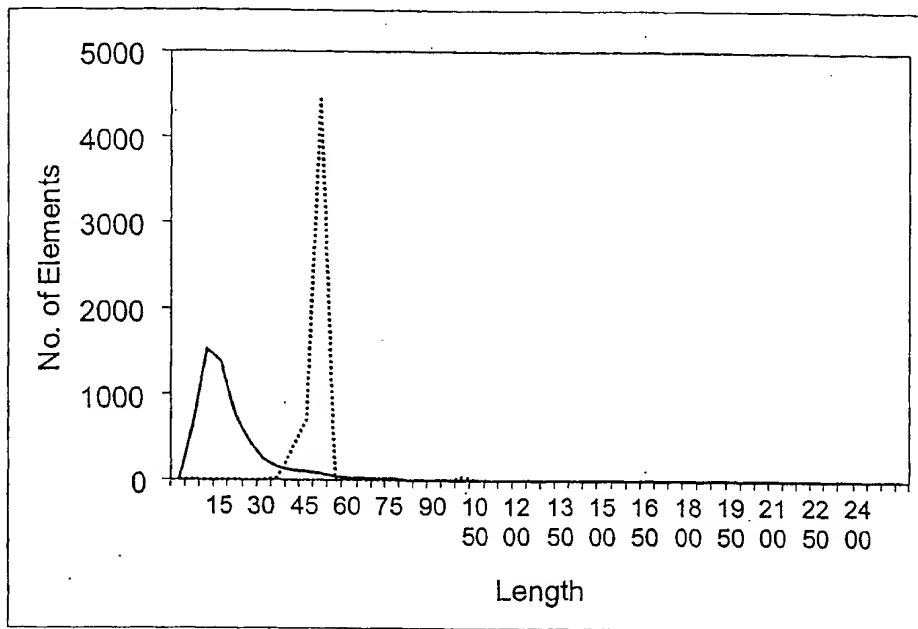


Fig. 5

6/10

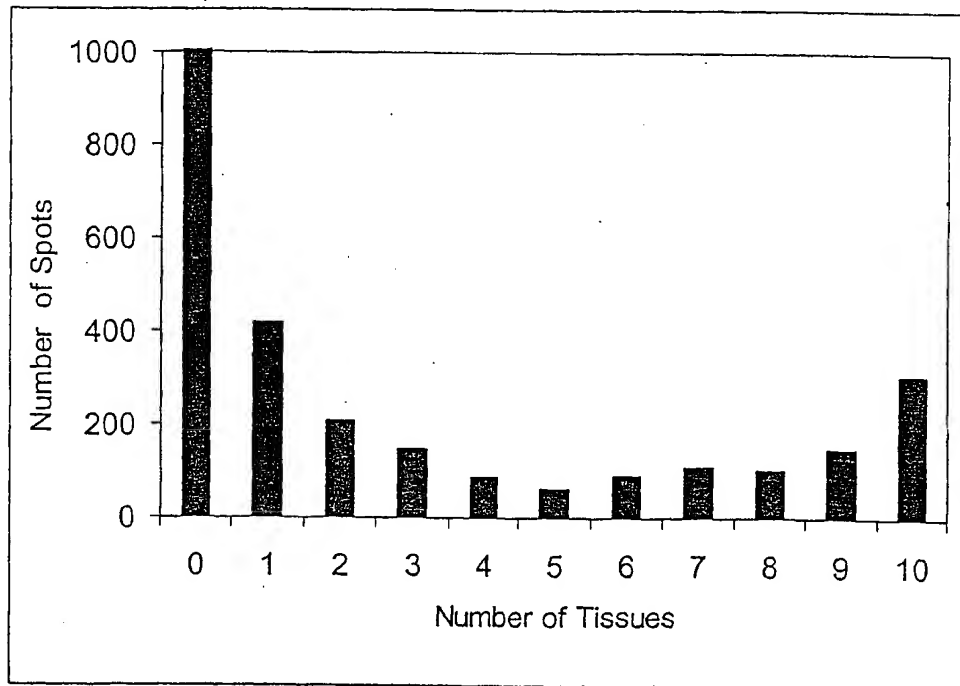
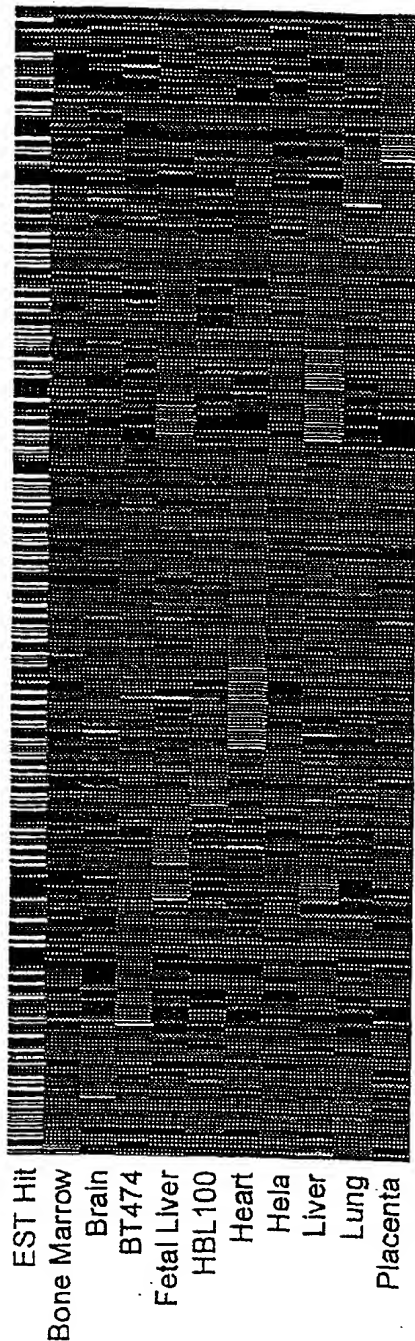


Fig. 6

7/10



EST Hit
Bone Marrow
Brain
BT474
Fetal Liver
HBL100
Heart
Hela
Liver
Lung
Placenta

Fig. 7a

ratio legend

>9
8
7
6
5
4
3
2
1

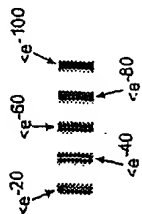


Fig. 7b

Fig. 7c

8/10

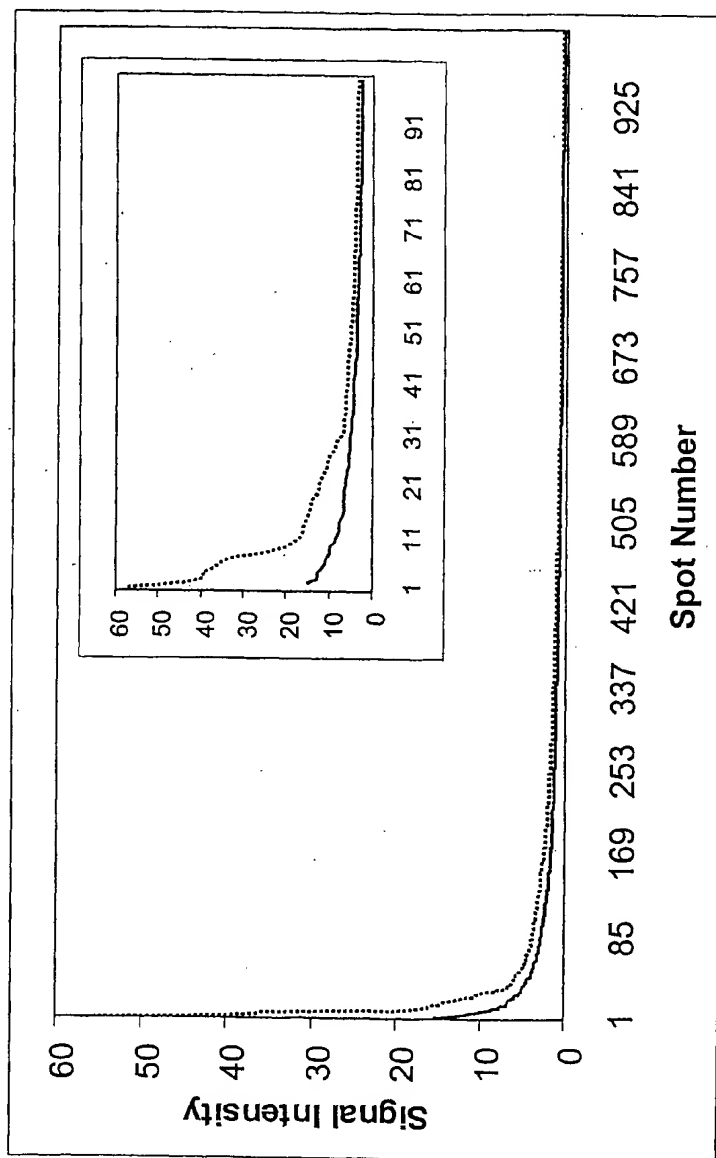


Fig. 8

9/10

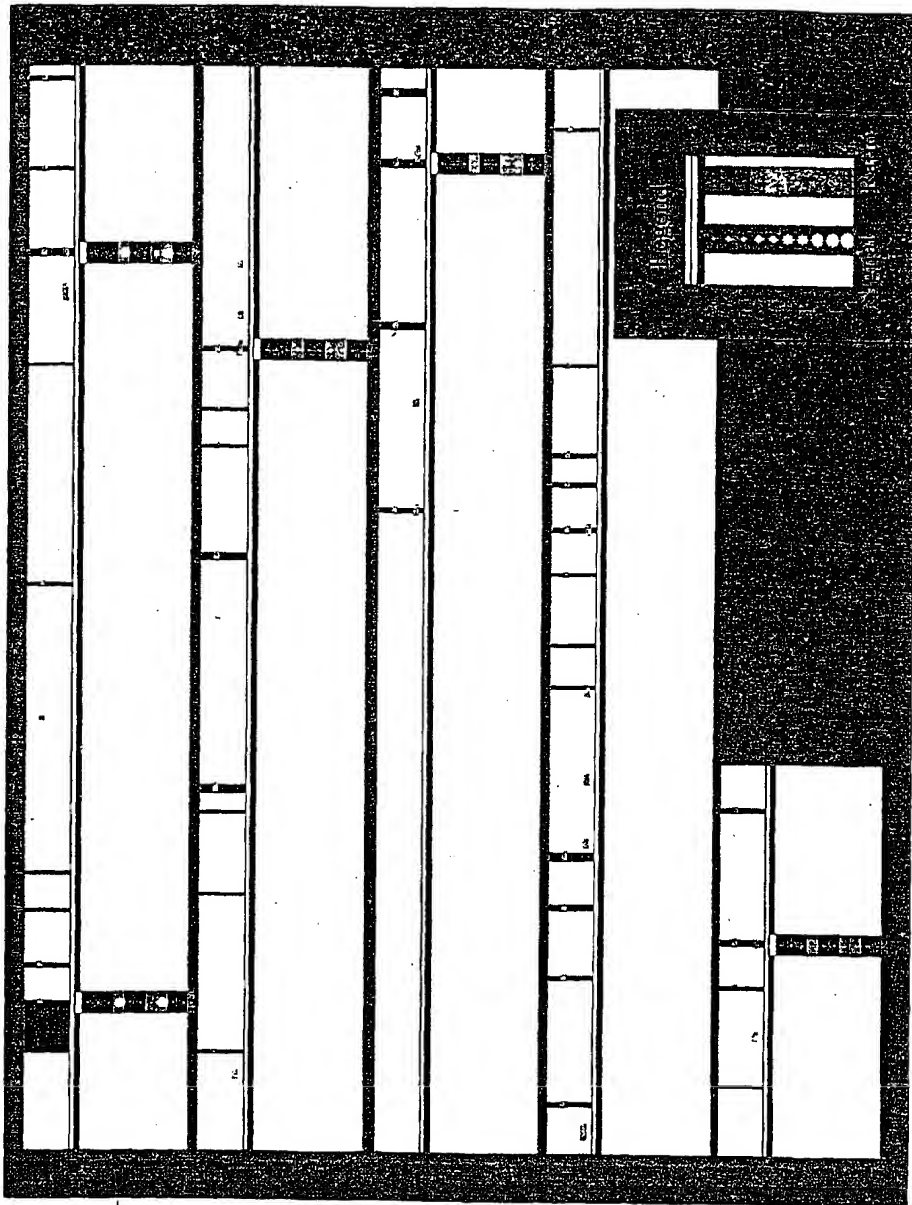
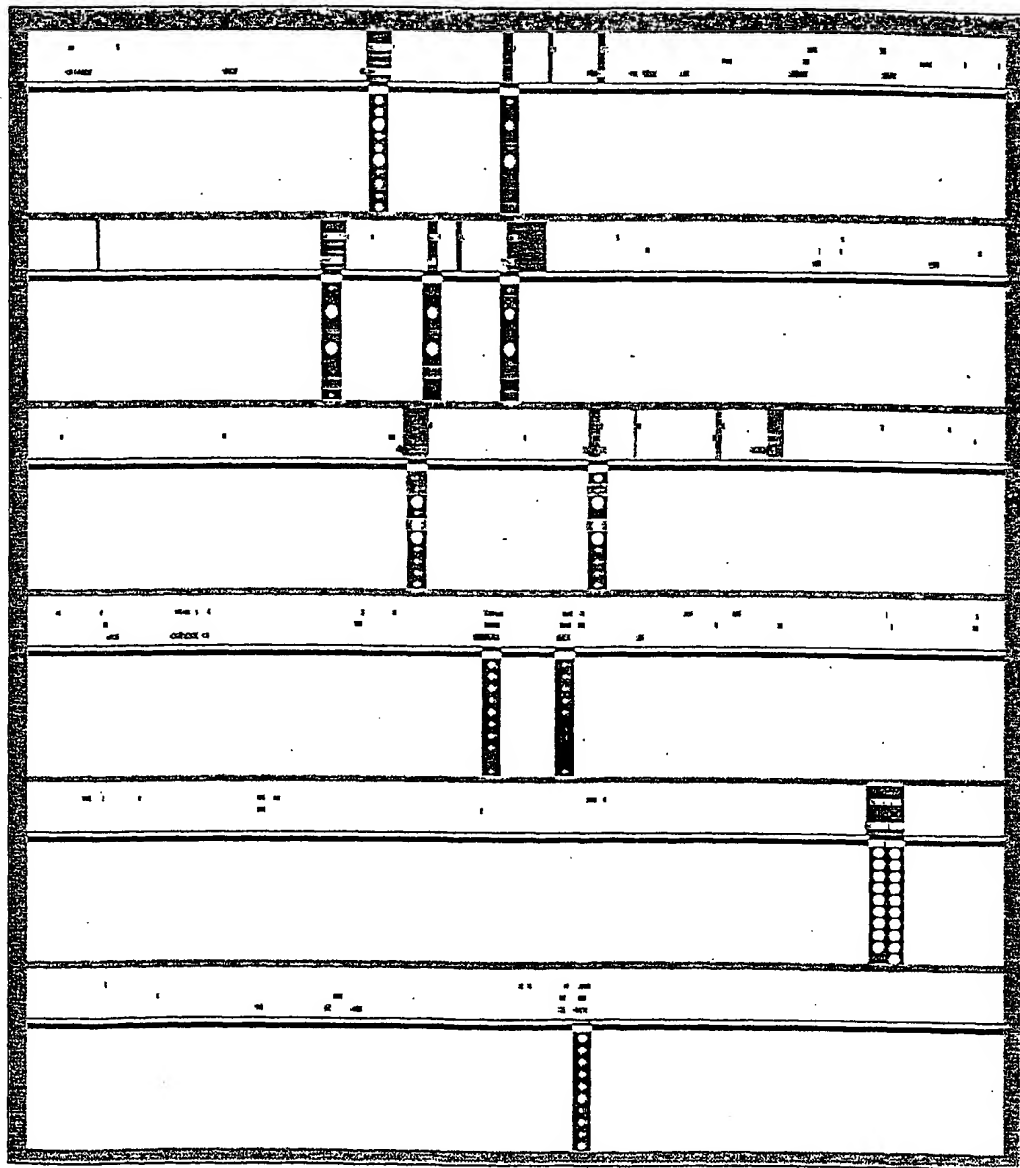


Fig. 9

10/10

Fig. 10



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| 60/234,687 | 21 September 2000 (21.09.2000) | US |
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| 0024263.6 | 4 October 2000 (04.10.2000) | GB |
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- (74) Agent: **RONNING, Royal, N., Jr.**; Amersham Pharmacia Biotech, Inc., 800 Centennial Avenue, Piscataway, NJ 08855 (US).
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(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN BRAIN

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human brain is described. Also described are single exon nucleic acid probes expressed in the brain and their use in methods for detecting gene expression.



WO 01/057275 A3

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68 G06F19/00 C07K14/47

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, EMBASE, CHEM ABS Data, EMBL, BIOSIS, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! ID:AC007372, April 1999 (1999-04) DICKHOFF ET AL.: "Homo sapiens chromosome 14 BAC containing gene for type 2 iodothyronine deiodinase (DIO2) gene" XP002186078	13-21,25
Y	abstract	1-12, 22-24, 26,27
X	DATABASE EMBL 'Online! ID:CNS0000F, 11 May 1999 (1999-05-11) HEILIG ET AL.: "Sequencing of the human chromosome 14" XP002186079	13-21,25
Y	abstract	1-12, 22-24, 26,27

-/-



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

*** Special categories of cited documents :**

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! ID: AQ750225, 20 July 1999 (1999-07-20) MAHAIRAS ET AL.: "Construction of a Characterized Clone Resource for Genomic Sequencing" XP002186080	13-21,25
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Y	WO 98 30722 A (MACK DAVID H) 16 July 1998 (1998-07-16) the whole document	1-12, 22-24, 26,27
Y	WO 99 67422 A (SMITHKLINE BEECHAM CORP ;LEARY JEFFREY J (US); TAL SINGER RUTH (US) 29 December 1999 (1999-12-29) the whole document	1-12, 22-24, 26,27
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Y	TAKAHASHI N ET AL: "High-density cDNA filter analysis of the expression profiles of the genes preferentially expressed in human brain" GENE, ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, NL, vol. 164, no. 2, 27 October 1995 (1995-10-27), pages 219-227, XP004041878 ISSN: 0378-1119 the whole document	1-12, 22-24

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	YASOJIMA K ET AL: "TANGLED AREAS OF ALZHEIMER BRAIN HAVE UPREGULATED LEVELS OF EXON 10 CONTAINING TAU MRNA" BRAIN RESEARCH, AMSTERDAM, NL, vol. 831, no. 1/2, 1999, pages 301-305, XP000929899 ISSN: 0006-8993 the whole document ---	1-12, 22-24
Y	ERMAK G ET AL: "RESTRICTED PATTERNS OF CD44 VARIANT EXON EXPRESSION IN HUMAN PAPILLARY THYROID CARCINOMA" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 56, no. 1, 1 March 1996 (1996-03-01), pages 1037-1042, XP002063388 ISSN: 0008-5472 the whole document -----	1-12, 22-24

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/00667**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-24,26 (partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-27 (all partially)
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA 210

Continuation of Box I.2

Claims Nos.: 1-24,26 (partially)

The following statements about the impossibility of performing a meaningful search according to Art. 17(2) PCT are made for the subject matter for which a search has been performed and identified as the first invention in form 206 PCT. If additional fees are paid for the (one or more) as yet unsearched inventions, similar statements about incomplete searches could be issued.

Present claims 1-12 and 22-24 relate to an extremely large number of possible sets of nucleic acid probes comprising Seq.Id. 1 or 2 as well as microarrays comprising said sets. In fact, the claims contain so many possible permutations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search for the sets of probes comprising Seq. Id. 1 or 2 has been limited to the Seq. Id as such.

Claims 1-3, 5, 6, 8-15 and 18-24 relate to portions or fragments of nucleic acids defined by Seq. Id. 1 or 2. The length or other similar characterizing features of the portions or fragments is not disclosed, bringing the total number of possible prior art sequences to exceptionally high numbers. The shorter the length, the higher the possibility that an overflow of, in principle unrelated, sequences are retrieved, making the establishment of a meaningful International Search Report impossible. For this reason the search has been limited to portions or fragments of Seq. Id. 1 or 2 having a significant minimum length and being supported by the description, namely at least 15 contiguous nucleotides (see claim 16).

Claims 15-21 relate to an extremely large number of nucleic acid probes. The probes are defined solely by their potential to code for peptide Seq. Id. 25443. However, due to the degeneracy of the genetic code, every peptide is potentially coded by an extremely high number of nucleic acid sequences. In fact, the claims contain so many potential nucleic acid sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claims impossible. The search has therefore been carried out for those parts of the claims which do appear to be clear and concise, namely the nucleic acid sequences disclosed in the application and identified as encoding the referred peptide in table 4 (Seq. Ids. 1 or 2 and 12830).

Likewise, claim 26, which refers to peptides encoded by Seq. Ids. 1 or 2 and 12830, encompasses a high and undefined number of possible peptides. Besides three possible reading frames deriving from the encoding nucleic acid strand, as well as three additional reading frames deriving from the complementary nucleic acid strand, every possible fragment of these is being covered by the claim. This is due to the potential presence of stop codons within any of the six possible reading frames which can not be established a priori. Thus, claim 26 contains so many potential peptide

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claim impossible. Consequently, the search has been carried out for those parts of the claim which do appear to be clear and concise, namely the peptide disclosed, identified by Seq. Id. 25443.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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WO 9830722	A	16-07-1998	AU 6035698 A	03-08-1998
			EP 0973939 A1	26-01-2000
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